Special Directory Edition

Canada's Personal Computing Magazine

\$4.95 MM70247













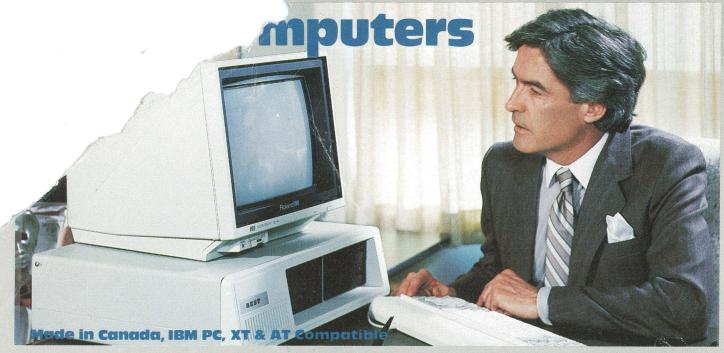




Special Dire Systems, Ha

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OI4030*JAN 87* CN03*

er



Monitor not included. IBM, IBM PC, IBM XT and IBM AT are registered trademarks of IBM Canada Ltd.

Features common to BEST MK II, MK III & MK IV

- Superb IBM PC & XT Compatibility
- Canadian Made
- 256K RAM Standard minimum (uses 41256K RAM chips)
- Expandable on board to 640K RAM
- Parallel Port (for printer)
- Serial Port (for communications)
- Real Time Clock/Calendar (with Battery Backup) Presocketed for optional co-processor such as 8087 Math Processor
- IBM Compatible Keyboard

- Reset Switch
- Phoenix BIOS as used in many major brand IBM compatible systems.
- 150 Watt Power Supply which will handle a Hard Drive without upgrade.
- 7 Slots
- Flip top case
- 2 Slimline DS,DD 51/4", 360K Disk Drives
- Colour Video (RGB & Composite) Board or Hi-Res Monochrome Card (customer choice)
- Disk Controller Board

Warranty

We have such confidence in the time tested reliability of the BEST that we offer a ten (10) month warranty which is way above the industry standard. On-site service plan available at extra cost Nation-wide through 3M of Canada Ltd.

BEST MK II. Regular \$1695. This Month:

Two 350K DS,DD disk drives, Serial and Parallel Ports, Real Time Clock, Phoenix BIOS, uses 8088 processor - full specifications given above.



The FAST BEST MK III

As BEST MK II plus speed selectable: 4.77 and 8MHz (most software will run on the higher speed), uses 8088-2 pro-



SUPER-FAST BEST MK IV

As BEST MK III plus TRUE 16-Bit machine, 8086-2 processor, IBM compatible 8-Bit I/O channel bus, even faster than MK III due to 16-Bit architecture. With 256K standard.

TEN MONTH WARRANTY

TEN MONTH WARRANTY

REGULAR \$2400

TEN MONTH WARRANTY

Other Configurations: With 640K RAM With 10 Meg Hard Drive/1 Floppy/256K With 10 Meg Hard Drive/1 Floppy/640K With 20 Meg Hard Drive/1 Floppy/256K

\$2795 With 20 Meg Hard Drive/1 Floppy/640K \$2895 \$1995

\$1695

\$2495

\$2595

Other Configurations:
With 640K RAM.
With 10 Meg Hard Drive/1 Floppy/256K
With 10 Meg Hard Drive/1 Floppy/5640K
With 20 Meg Hard Drive/1 Floppy/56K
With 20 Meg Hard Drive/1 Floppy/640K
With 80 Meg Hard Drive/1 Floppy/640K 2895 \$2895 \$2995 \$3995

Other Configurations: With 640K RAM..... With 640K HAM. \$2195 With 20 Meg Hard Drive/1 Floppy/640K ...\$3195 The BEST Mk IV Main board processes data approx. 2.1 times faster than the IBM PC/XT or

BEST Mk II.

above system



AVT-286

Superb IBM AT compatibility, 640K RAM, Two 5.25 in disk drives (one high density 1.2 Megabyte, one standard 360K), serial and parallel ports high quality-keyboard, keyboard lock and status monitor.

TEN MONTH WARRANTY.

With 20 Megabyte fast stepping Hard Disk and Controller:

40 Megabyte systems also available at reasonable prices.

New, TURBO IBM AT compatible.

- 10 MHz CPU
- Up to 4 Meg RAM.

AXT-286

- Superb IBM AT compatibility plus more:
 Standard 640K RAM and optionally up to 4 megabytes of RAM on main board.
 6 MHz, 8 MHz, and 10 MHz selectable
- 6 MHZ, 8 MHZ, and system speed.
 (2) 54" disk drives (1 high density 1.2 meg, one standard 360K).
 Serial and parallel ports, high quality; keyboard, keyboard lock

With 640K RAM and 10 MHz CPU

2 Meg RAM \$6695.00 2 Meg RAM with 30 Meg Hard Drive 4 Meg RAM with 30 Meg Hard Drive 2 Meg RAM with 40 Meg Hard Drive \$8695.00 \$10,295.00 \$8995.00 4 Meg RAM with 40 Meg Hard Drive 4 Meg RAM with 80 Meg Hard Drvie 10.595.00 \$11,395.00

Scorpion Tape back-up (60 Meg) for any of the above system\$1595.00

TEN MONTH WARRANTY

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319 College Street, Toronto, Ont. M5T 1S2

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COPAL PRINTERS!

ECONOMY

COPAL ACCESSORIES

SC 5500 Ribbons Serial interface fo Serial interface fo	rSC	120	0 .	 \$95.00
SC 1200 Ribbons SC 1500 Ribbons		٠.,		 \$12.00

PROFESSIONAL

SC1200 ...\$329.00

- 120 cps. bi-directional
- · dual mode, NLQ & draft standard
- tractor and friction feed · parallel interface
- 1 year warranty
- 10 in. carriage
- foreign language characters
- IBM & Apple compatible



SC 5500 15" carriage **\$699.00**

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SC 1500

- 160 cps, bi-directional
 dual mode NLQ & draft standard
- tractor & friction feed
- · 3K buffer
- parallel interface
- 1 year warrantyIBM & Apple compatible

\$35.00



1 year warranty

Serial Switch Box

Toshiba Printers P321

Impact Wire Dot Matrix, 24-pin overlapping. Letter quality 72 c.p.s; Draft quality 216 c.p.s. (12 cpi), 180 c.p.s. (10 cpi). Accepts Font Cartridges and downloadable font disks, Qume Sprint 11 emulation, 4" to 11" paper widths, PC compatible and more.

Parallel and serial interface......\$1079.00

D351

Impact wire dot matrix 24-pin overlapping 4" to 15" paper width.

Accepts font cartridges and downloadable font disks. Qume Sprint 11 emulation, IBM PC compatibility, and more. Parallel and serial interface.

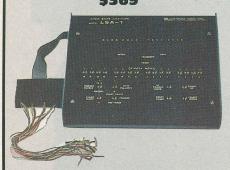
- · Letter quality at 100 cps
- High-speed drafts at 288 cps
- Superb graphics at 360 x 180 and 180 x 180 dots per \$2095.00

NEW P351C

Multiflex Low-Cost Logic State Analyzer

Ideal for educational Institutions and hobbyist.

> Complete, assembled and tested \$369



- Allows you to monitor 16 points in a digital system.

Cable Assemblies

External Card.



DB25 Male to DB25 Female RS232 Cable (6ft of round conductor)\$39.00

RS232 other lengths and connector configurations available on request.

Parallel cable 36 pin Centronics type connectors, male joined by 6ft of ribbon cable to female\$35.00 Parallel Cable for IBM interface DB25 through 6ft of ribbon to 36 pin centronics with appropriate

Cable Assemblies for two 5-1/4in drives and controller (e.g. IBM) using three 34 pin connectors and appropriate

length of 34 conductor cable 20 pin Female header 24in. to 20 pin for Apple drives

This card can program any one of the following EPROMs: 2716, 2732, 2732A, 2764 and 27128s. Two sockets are available on the adaptor board, one for the 28-pin EPROMs, the other for 24-pin types. These sockets are standard sockets, however as an option ZIF

sockets can be used (we recommend ZIF sockets if large numbers of EPROMs will be programmed). Also as an

option an extension board is available. This board attaches to the adaptor via a ribbon cable and extends out the back panel. This is to allow EPROMs to be program-med without removing the cabinet cover every time pro-gramming is to be performed. Also as a standard feature, the source software is supplied to allow users

As an option a serial port can be included on the card; this serial port has the same features as the port described with the floppy disk controller (see the floppy disk description for documentation of the serial port).

to modify the program to suit their needs.



Contains 3 RS232 connectors and a switch which switches all lines between input and one of two outputs.

Spectacular Gang EPROM **Programmer & Emulator**

Totally self-contained (has its own display, entry keypad and power supply).

Based on the Z-8 microprocessor.

Can program up to 8 EPROM simultaneously anywhere from one to 8 EPROMs at the same time with the information in its own memory or master EPROM).

The Gang Programmer can handle a wide selection

of EPROMs: 2716, 2732, 2732A, P2732A, 2532, 2764, 27128, 27128A and optionally upgradeable to handle 27256, 27512, 2758 and 2724.

Complete package with EPROM Emulator, 8 ZIF sockets, Gang Programmer with 16Kx8 of RAM and\$995.00

Gang EPROM Programmer with 8 ZIF sockets, 16Kx8 RAM and RS232, without Emulator \$695.00

EMPROM Programmer with only one ZIF socket, 16Kx8 RAM and RS232, without Emulator. Able to do all the functions describe but can handle only one EPROM at a \$499.00

MAIN EPROM PROGRAMMER CARD (WITH SOFTWARE)

EPROM PROGRAMMER WITH ZIF SOCKETS (WITH SOFTWARE)

EXTERNAL CARD

Ready to plug into the main EPROM Card (includes one 24-pin and 28-pin ZIF socket and cable). Saves you from opening the computer each time you want to program \$69.00 your EPROMS.

SERIAL OPTION

Exceltron

319 College Street, Toronto, Ont. M5T 1S2

(416) 921-8941. Order line only 1-800-268-3798 Ottawa, 217 Bank Street (613) 230-9000 Visa, Mastercard and American Express accepted.

Are other diskette makers cutting more than prices?

Ever wonder why a less expensive diskette is less expensive?

Because it's less diskette.

True, most claim to be "certified 100% error-free." but 100% of what?

Most manufacturers only test 100% of the data tracks on their diskettes. But, unfortunately, they don't test between the tracks.

Dysan, on the other hand, tests 100% of the entire surface area. On every diskette we make.

Why? Because even the tiniest undetected error between tracks can render a diskette incapable of formatting or reading and writing data. And capable of suddenly and irreversibly losing all your data.

Here's another way other manufacturers take shortcuts. To determine the magnetic strength of their diskettes, they follow a standard set by the American National Standards Institute (A.N.S.I.). But Dysan exceeds that standard by 88%. Because the stronger a diskette's magnetic signal, the longer it will record and retain your data.

Why don't other diskette makers go to the same extremes that we do? Quite simply, to save time and money.

But at Dysan, we think there's something much more important to save. Namely, your data.

Which is why we never cut corners.

For the name of the Dysan dealer nearest you, call toll free 1-800-387-9635.

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Dysan°

Somebody has to be better than everybody else.



The MBC-880 PC compatible on our front cover was graciously supplied by Sanyo. The drawing of the fingers was rendered by John Rudzinski. The cover photograph was



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CONSULTING EDITOR Frank Lenk

DIRECTOR OF PRODUCTION Erik Blomkwist

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AMIGA SECTION



SYSTEMS

Amiga A1000

Operating System: AmigaDOS Processor: 68000

Standard RAM: 256
Maximum RAM: 8192
I/O Ports: serial, parallel

Available From: Commodore Price: \$1999.95

Includes keyboard, mouse, operating system, demo software. I/O includes 3 video ports, 2 controller ports, external floppy disk port. Bus accessible externally. Takes snap-in 256K memory expansion, \$299 extra.

EXPANSION

Amiga RAM Expansion

Function: Memory expansion Manufacturer: Commodore Available From: Commodore \$299.95

Snap-in 256K RAM card fits into slot on front of Amiga system unit, brings total system memory up to 512K.

Amiga Sidecar

Price:

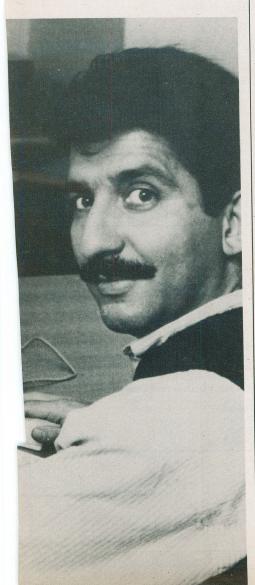
Auxilliary Processor Function: Commodore Manufacturer: Commodore Available From: \$300.00 Price:

IBM PC hardware emulator. To be available this fall.

Cardco Memory Expansion

Provides a full megabyte of RAM

Memory expansion Function: Manufacturer: Cardco Available From: Beamscope \$799.95 Price:



Tecmar T-card

Function: Multifunction Manufacturer: Tecmar Available From: EMJ \$1295.00 Price:

Multifunction module for Amiga, includes serial port, clock/calendar, hard disk interface, up to 1M of RAM. Plugs into Amiga expansion bus or T-connect module.

Tecmar T-connect

Function: (Special) Manufacturer: Tecmar Available From: EMJ \$733.00 Price:

Expansion module, plugs into Amiga bus.

STORAGE DEVICES

Amiga Disk Drive 1010

Manufacturer: Commodore microfloppy, external Type:

Capacity: 880 kilobyte Available From: Commodore \$449.99

Add-on double-sided double-density drive for the Amiga. Socket allows daisy chaining of additional drives. Includes

Amiga Disk Drive 1020

Manufacturer: Commodore floppy, external Type: Capacity: 360 kilobyte Available From: Commodore \$599 99

Standard 5-1/4 inch floppy drive, double-sided double-

density, IBM PC format. Includes cable.

Tecmar T-disk

Manufacturer: Tecmar hard, external Type: Capacity: 20 megabyte **Available From:** EMJ \$2344.00

Outboard hard drive, includes built in controller. Average 85 millisecond access time. Connects to Amiga expansion

bus, T-card or T-connect.

MISCELLANEOUS

Easyl

Manufacturer: Anakin Research **Function:** \$699.00

Graphics tablet for use with Amiga, features writing area of 8.5x11 inches with resolution of 1024x1024 pixels. Drivers allow use with Aegis Images, Deluxe Paint, Graphicraft, etc. Source code and documentation allow custom drivers.

Genlock 1300

Manufacturer: Commodore Video Mixing **Function: Available From:** Commodore Price: \$500.00

Allows text, sound and graphics created by the Amiga to be combined with any NTSC video source, such as a video camera, television or VCR. Available in Canada by late

Hippo EPROM Burner

Manufacturer: Hippopotamus EPROM Burner **Function:** Price: \$139.95 (US)

Reads, verifies, edits and burns most EPROM chips

Amiga version \$199.95 US.

PRINTERS

Okimate 20

Okidata Manufacturer: dot matrix, color Type:

Print Speed: 80 cps draft, NLQ **Print Modes:** Graphics: ves Download Fonts: yes

Interface: parallel \$169.00 (US) Price:

Lightweight thermal transfer matrix color printer, prints near-letter quality at 40 cps, supports usual print effects. Optional Amiga Plug 'n Print kit supports 4096 screen colors. Prints on thermal paper, bond or acetate.

More printers in Printer Section.

MONITORS

Amiga Monitor 1080

Manufacturer: Commodore Type: color, RGB Screen Size: 13 inch Bandwidth: 10 Mhz Available From: Commodore \$799 99

Designed to display all 4096 colors available on the Amiga system. Features front-mounted color, tint, brightness, contrast, volume, and hold controls. Accepts RGB or NTSC composite input, TV tuner. Dot pitch .39 mm.

Modems: See Modem Section.

Amiga

Software

UTILITY **DESKTOP MANAGERS**

MaxiDesk

Set of useful business tools, includes calculator, alarm clock, phone address book, keyboard helper, and notepad.

Publisher: Format:

MaxiSoft Disk \$99.95

Price: Availability:

Beamscope

BUSINESS WORD PROCESSORS

HippoConcept

Multi-level outliner and idea processor, allows concepts to be structured along an outline format. Amiga version \$119.95 US

Publisher:

Hippopotamus Software

Format:

Price:

\$89.95 (US)

HippoSpell

Spellchecker with 30,000 word dictionary. Provides word statistics, allows creation of user-defined dictionaries. Amiga version \$59.95 US.

Publisher:

Hippopotamus Software

Format:

Disk

\$39.95 (US) Price:

HippoWord

Advanced word processor, with multiple font support, mail merge, macros, etc. Extra fonts available. Amiga version \$189.95 US

Publisher:

Hippopotamus Software Disk

Format:

\$89.95 (US) Price:

PaperClip Elite

Enhanced version of the popular eight-bit word processor. Adds real-time spellchecking, idea processing, text/graphics integration, etc. Scheduled for release this fall.

Publisher:

Batteries Included

Format: Price:

Disk n/a

Entry-level icon-driven word processor. Includes cut/ paste, formatting options, online tutorial. Also available with ready-made business forms.

Publisher: Format:

Commodore Disk

Price: Availability:

\$189.99 Commodore

WordPerfect

Includes advanced features such as footnotes, text columns, math functions, mail merge, spell-checker with 30,000-word user-expandable dictionary. Macintosh and Amiga versions to be available by end of 1986

Publisher: Format:

SSI Software Disk

Price:

\$650.00

SPREADHSEETS

BTS The Spreadsheet

Features up to 1000 rows, 1000 columns, math, stats and financial functions, logic operators, mouse-adjustable varible column widths, sparse-matrix storage, SYLK file format. Mac and ST package also includes desk accessory

Publisher:

Batteries Included

Format: Price:

Disk \$99.95

MaxiPlan

Full-featured spreadsheet with database and chart maker. Provides 512 columns by 16384 rows, multiple windows, 8 colors, 4 text styles, speech, up to 4 color charts dynamically linked to data, mailmerge, etc. Accepts Lotus files.

Publisher: Format:

MaxiSoft Disk \$150.00 (US) Availability: Beamscope

Unicalc Electronic spreadsheet.

Publisher: Format:

Lattice \$110.00

Availability:

Software Commodities

VIP Professional

Work-alike version of Lotus 1-2-3 for the Atari ST. Emulates all Lotus command structures and file formats. Worksheet size up to 256x8192. Supports extra memory up to 4+ megabytes. Uses color, alternate fonts. Simpler VIP Lite \$99.95 US.

Publisher: Format:

VIP Technologies

Price:

Disk (2) \$179.95 (US)

FINANCIAL

Farm Accountant

Double-entry general ledger designed specifically for farming. Prints balance sheets, profit-loss statements, transaction listings, does analysis of income and expenses, stores up to 1500 transactions per month.

Publisher: Format:

Price:

Digipac Disk \$295.00

Farm Financial Analysis

Includes budgeting, calculation of profit or loss, cash flow. Work with individual enterprises or entire farm. Imports/exports spreadsheet data. Forecast tax position for yearend, calculates capital cost allowance, tax credits, etc. Publisher:

Format:

Digipac \$99.00

Price:

Farm Inventory & Filer

Works with Farm Accountant to provide inventory updating and general purpose electronic filing.

Publisher:

Digipac Disk

Format: Price:

\$99.00

Financial Cookbook

Menu-driven financial calculations designed to be used without any prior knowledge of either finance or computing. Pick from over 30 types of calculations, fill in input form and get tabular results. Supports printers.

Publisher:

Electronic Arts

Format: Disk \$69.95 Price:

Availability: Beamscope, Ingram

I*S Time and Billing

Professional office management system, includes Daily Records, Automatic Billing, AR, Billing Breakdowns, electronic mail. Uses GEM interface.

Batteries Included

Publisher: Format: Price:

Disk

Isgur Portfolio

Sophisticated stock-portfolio management system designed for both the individual and the professional broker. Downloads from CompuServe, Dow Jones or The Source. GEM interface with function key options. Macintosh & ST

versions \$199.95. Publisher:

Batteries Included

Format: Disk \$269.95 Price:

Availability: Beamscope, Ingram

Rags to Riches IV

Includes GL, AR, AP, each available separately for \$199.95 US. Handles up to 5000 accounts, 10,000 transactions. Amiga version is compatible with workbench conventions, supports mouse, icons, windows, multi-tasking,

Publisher: Format: Price:

Chang Labs Disk \$499.50 (US)

MISCELLANEOUS

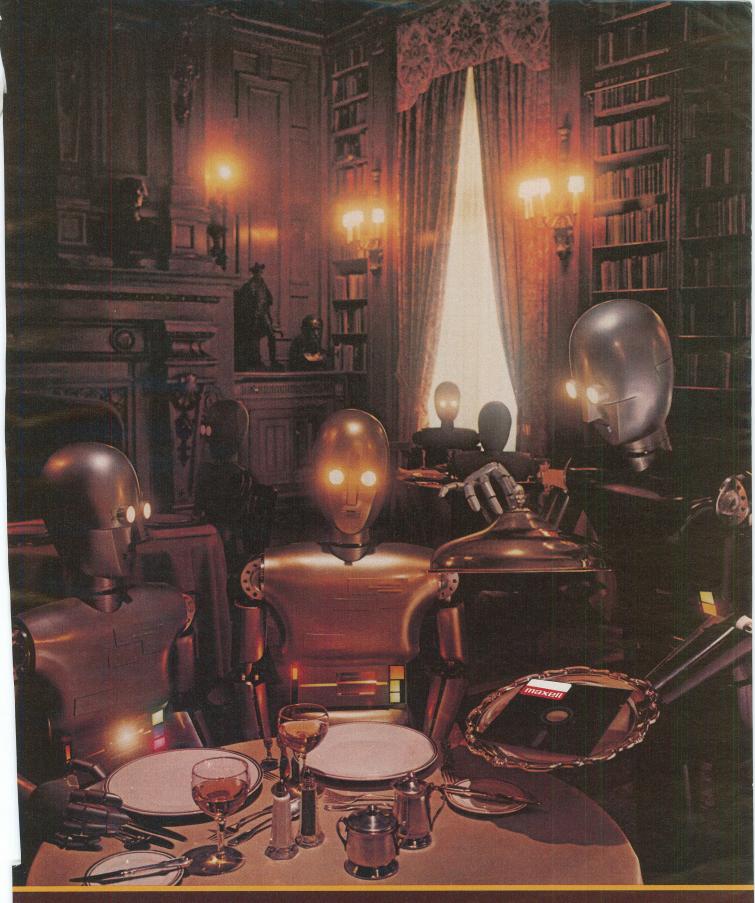
True BASIC Sociology Software

A comprehensive sociology program called CHIPendale. Statistically analyzes and cross-tabulates contingency tables. Developed by Jim Davis, Professor of Sociology and Research Associate at the National Opinion Research Cen-

Publisher: Format:

True BASIC Disk

\$49.95 (US) Price: Availability: Ingram



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maxell.

FLOPPY DISKS THE GOLD STANDARD

Circle No. 9 on Reader Service Card

Amiga

Software

GENERAL **GRAPHICS**

Aegis Animator

Full-feature metamorphic animation system. Supports 3-D manipulations of objects, creates storyboards, allows experimentation. Accepts paintings from Aegis Images, Commodore Graphicraft. Use with Genlock for video titles, scrolling credits

Publisher:

Aegis Development

Format: Price:

Disk \$139.95 (US)

Ingram Availability:

Aegis Draw

Sophisticated drawing system with pulldown menus, supports multiple drawings in windows, layering, scaling, etc. Input from mouse, keyboard, or graphics tablet. Output to HP, Epson, Comrex or other plotters. Passes files to paint programs.

Publisher:

Aegis Development

Format:

Disk

Price: \$199.95 (US)

Availability: Ingram

Aegis Draw Pro

Enhanced version of Aegis Draw. Allows creation of very large drawings. Attributes feature produces Bill of Materials, passes data to databases. Includes link for sending data to custom Microsoft BASIC programs.

Publisher:

Aegis Development

Format: Price:

Disk n/a Ingram

Availability:

Aegis Images

A professional paint system, suitable for architectural, theatre, advertising or other graphic design work. Integrates with Aegis Animator for slide shows and animations. Accepts video images from Genlock.

Publisher:

Aegis Development

Format: Price:

Disk \$79.95 (US)

Availability:

Ingram

Business presentation graphics package. Does pie charts, bar graphs, icons, plots, trends. Includes structured drawing system for enhancements. Prints, or outputs files to other graphics systems such as Aegis Impact.

Publisher:

Aegis Development

Format:

\$199.95 (US)

Price: Availability:

Ingram

Art Pak #1 and #2

Ready-to-use clip art collections for use in any paint or animation systems, including Aegis Images, Aegis Animator, Graphicraft, Deluxe Paint, etc. Art Pak #1 includes city scenes, animals, etc. Art Pak #2 has trees, plants,

sports, etc.

Publisher:

Aegis Development

Format: Price: Availability: Disk \$59.95 (US)

B/Graph Elite

Complete business graphics, includes pie charts, 2 and 3 dimensional bar charts, line and area graphs. Change designs instantly. Inlucdes statistics analysis package.

Publisher:

Batteries Included

Format: Price:

Disk \$69.95

Degas

Full-featured menu-operated paint program. Includes multiple brushes, over 500 colors, text fonts, line, circle, disk, box, fill, magnify mode, etc. Works in all Atari ST resolution modes, supports color or monochrome display.

Publisher: Format:

Batteries Included Disk

Price:

\$39 95

Degas Elite

Professional graphics program with desktop publishing capabilities. Cut & paste between pictures on multiple work screens, create presentation-quality graphics.

Publisher:

Batteries Included Disk

Format:

Deluxe Paint

Top-notch paint program, includes zoom, windows with independent zoom and scrolling, multiple brush sizes, cut and paste, 11 text fonts, custom color palettes, undo, colorcycle animation, drop shadows, etc. Sample pictures in-

Publisher:

Electronic Arts

Format: Price:

Disk \$139.95

Availability: Beamscope, Ingram

Complete color-printing system. Combines unlimited number of pictures on one page, provides editing, flip, size, color setting from a palette of 4096, etc. Grid system for accurate positioning, 15 pre-defined formats included.

Publisher:

Electronic Arts

Format:

Availability:

\$139.95 Beamscope, Ingram

Deluxe Video Construction Set

Creates slide shows, does animations, interactive instructional videos, etc. Can be output to videotape, mixed with live action.

Publisher: Format:

Price:

Electronic Arts \$139.95

Availability: Beamscope, Ingram

Graphicraft

Availability:

An entry-level graphics and design program.

Publisher: Format: Price:

Commodore Disk \$149 99 Commodore

HippoFonts I

Set of 12 additional fonts for use with HippoWord. Amiga version \$59.95 US.

Publisher: Format:

Hippopotamus Software Disk

Price:

\$39.95 (US)

HippoPixel

Graphics system, creates new fonts, sprites, animation sequences. Amiga version \$59.95 US.

Publisher: Hippopotamus Software

Format: Disk

\$39.95 (US) Price:

Live!

Accepts input from a video camera, displays, manipulates and stores digitized images in 320 pixel horizontal resolu-

Publisher:

A-Squared Disk

Format: Price:

n/a

TDI Andra

Document processor for Epson FX-80 compatible and laser printers. Provides graphic onscreen display of final copy, mouse selected menus, multiple document windows. Not copy protected. Laser version \$749.95.

Publisher: Format:

Disk

Price: \$149.95 Availability: STari

MUSIC

Music Studio, The

MIDI software for composing and editing scores. Up to 15 channels controllable at the same time. Uses pulldown menus, windows, etc. Includes library of compositions.

Activision

Publisher: Format: Price:

Disk \$79.95

Availability: Beamscope, Ingram

Music entertainment package, allows tunes to be composed, played, stored, etc.

Publisher: Format: Price: Availability: Commodore \$149.99

Commodore

COMMUNICATIONS

Amiga Term

Telecommunications package, provides terminal emulation, supports Kermit, XMODEM and CompuServe B protocols.

Publisher: Format:

Commodore Disk n/a

Price: Avail ability:

Commodore

Amiga

Software

Diga!

Easy multi-tasking telecommunications package. Provides multiple terminal emulation, Amiga Binary adn XMODEM file transfer, macros, address cards, etc.

Publisher: Format:

Aegis Development

Price:

Disk \$79.95 (US)

Availability:

Ingram

I*S Talk

GEM-based communications system. Features menus, windows, 300K RAM capture buffer, capture to disk, full-screen editing of incoming text, 50,000-word spell checker, 3 levels of macros, memo function, online help. ST version \$109.95.

Publisher:

Batteries Included

Format: Price: Disk \$139.95

MaxiComm

Complete communications package. Includes terminal emulation, file transfer, etc.

Publisher: Format:

MaxiSoft Disk \$69.95

Price: Availability:

Beamscope

RECREATION

ACTION GAMES

Arcticfox

Tank battle simulator with 3-D graphic display. Battle various types of enemy machines, drive across Arctic battlefield, control an arsenal of heavy cannon, homing missiles and mines.

Publisher: Format: Electronic Arts Disk

Format: Disk Price: \$49.95

Availability: Beamscope, Ingram

Garry Kitchen's GameMaker

Allows user to create animation, design player shapes, draw playing fields, etc. Creates working arcade-style games.

Publisher:

Format: Dis Price: \$69

Availability:

Activision Disk

\$69.95 Beamscope, Ingram

Skyfox

Flying battle game. Pilot a fighter, view enemies and terrain in perspective display. Destroy enemy targets on the ground and in the air. C-64 version \$32.95 US.

Publisher:

Electronic Arts

Format:

Disk \$39.95 (US)

Availability:

Beamscope, Ingram

ADVENTURE GAMES

Arazok's Tomb

Synergistic graphics-text adventure. A telegram from your sweetheart leads you on a dangerous quest into the underground world ruled by the undead messenger from hell, Arazok. Recommended for adult players.

Publisher:

Availability:

Aegis Development

Format: Disk Price: \$49.95 (US)

Ingram

BACKING YOU UP New Books from SAMS



Advanced C Primer + Stephen Prata, The Waite Group 400 pages, paper, 672-22486-0

C is rapidly becoming the language of choice among software developers and students because of its portability and conciseness. This primer provides intermediate to advanced programmers

with the information necessary to program at an advanced level.

Inside the Amiga John Berry, The Waite Group 350 pages, paper, 672-22468-2

Inside the Amiga is a technically sophisticated programming guide to this 68000 based computer. It features a wealth of applications for the state-of-the-art graphics, animation, and sound features of this powerful new personal computer. The ad-



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Lattice Screen Editor (LSE™)

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Designed as a programmer's editor, *Lattice Screen Editor (LSE)* is fast, flexible and easy to learn. *LSE's* multi-window environment provides all the editor functions you need including block moves, pattern searches and "cut and paste." In addition, *LSE* offers special features for programmers such as an error tracking mode and three Assembly Language input modes. You can also create macros or customize keystrokes, menus, and prompts to your style and preferences.

Lattice dBC III Library™

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The dBC III library lets you create, access and update files that are compatible with Ashton-Tate's dBASE system. dBC III's C functions let you extend existing dBASE applications or allow your users to process their data using dBC III or dBASE III.

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An automated product generation utility compatible with UNIX Make, *Lattice Make Utility (LMK)* lets you rebuild complex programs with a single command. Once you specify the relationships of the various pieces of your system in a dependency file, *LMK* automatically rebuilds your system the same way every time, and only compiles program files that have changed. But *LMK* is not limited to updating programs. You can use *LMK* to update documentation or perform **any** executable command!

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Lattice Text Utilities (LTU) consists of eight software tools to help you manage your text files. GREP searches files for the specified pattern. DIFF compares two files and lists their differences. EXTRACT creates a list of file names to be extracted from the current directory. BUILD creates batch files from a previously generated file name list. WC displays the number of characters and optionally the checksum of a specified file. ED is a line editor which can utilize output from other LTU software in an automated batch mode. SPLAT searches files for a specified character string and replaces every occurrence with a specified string. And FILES lists, copies, erases or removes files or entire directory structures which meet the specified conditions.

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Amiga

Software

Black Cauldron, The

Graphic adventure based on the animated Walt Disney movie of the same name. Uses color graphics, animated characters, etc. Joystick or keyboard control, multiple solutions and variable scoring.

Publisher: Sierra On-Line Format: Disk \$39.95 (US) Price: STari Availability:

Borrowed Time

Play the part of Sam Harlow, private eye in the thirties. Find out who's trying to kill you, collect evidence. Uses keyboard commands, function keys and mouse. Animated illustrations. A two-disk set.

Publisher: Activision Format: Disk \$59.95 Price:

Availability: Beamscope, Ingram

You are Kyne, a genetic engineer in hiding on the mining asteroid Brataccas. Explore, deal with inhabitants, avoid underworld hit-men. Uses word-balloons to show conversations, scrolling animation display. Supports mouse, joystick or keys.

Publisher: Mindscape, Psygnosis

Format: Disk \$54.95 Price: Availability: Ingram

Coveted Mirror, The

Animated graphic adventure includes skill and action games that help with the solution. You must escape the prison of the evil king Voar and find the five pieces of the magic mirror. Apple & C-64 versions \$17.95 US, Amiga \$29.95 US.

Publisher:

Penguin/Polarware

Disk Format: \$19.95 (US) Price: Availability: Ingram

Crimson Crown, The

Graphic/text adventure. You are a lone hero wandering a nightmare kingdom, exploring caverns and castles, finding magic objects and solving riddles.

Penguin/Polarware

Publisher: Format: Price:

Disk \$19.95 (US) Availability: Ingram

Cutthroats

You are the chief diver at a backwater island, working for some shady characters. Try to recover sunken treasure. Pure text, with sophisticated Infocom command parser. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom Disk Format: \$39.95 (US) Price:

Availability: Ingram, Radio Shack

Highly sophisticated interactive text adventure. You have 12 hours to find the murderer who lurks within the Robner household. Search rooms, interview suspects, find clues. An incredible logic puzzle. C-64 and Atari XL versions \$44 95 US.

Publisher: Infocom Disk Format: \$49.95 (US) Price: Availability: Ingram

Deja Vu: A Nightmare Comes True

You become a 1940s private eye, suffering from amnesia and locked into a sleazy bar. Try to escape, solve a murder and find your identity before the police get you. Uses windows, pulldown menus, mouse and keyboard commands

Publisher: Mindscape Format: Disk \$54.95 Price:

Availability: Beamscope, Ingram

Enchanter

First in a trilogy, a successor to the popular Zork series of pure text adventures. You must enter the Castle of the Enchanter, collect spells, and eventually outsmart the Evil Warlock, C-64 and Atari XL versions \$34.95 US

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram

Hacker

Break into the computer network of Magma Ltd, try to run a remote-controlled subterranean laser, travel around the world to track down stolen pieces of The Magma Project document, negotiate with spies, etc.

Publisher: Activision Format: Disk \$59.95 Price:

Availability: Beamscope, Ingram

Hitchhiker's Guide to the Galaxy

Idiosyncratic adaptation of the hilarious British radio/TV series. Follow Arthur Dent on a bizarre excursion through the universe following the destruction of Earth to make way for a hyperspace bypass. Pure text. C-64, Atari XL \$34 95 US

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram

Working on an archaeological dig in the desert, you have unwisely annoyed your Arab workforce, who abandon you. Alone you must find the lost pyramid, decipher its mysteries, and escape with its treasure. Pure text. C-64, Atari XL \$39.95 US

Publisher: Infocom Format: Disk \$44.95 (US) Price: Availability: Ingram

King's Quest

An adventurous world of three-dimensional graphics, sound, animated characters. Guide Sir Graham on his quest. Different mysteries and obstacles with each session.

Publisher: Sierra On-Line Format: Price: \$49.95

Availability: IBM, Ingram, Radio Shack

King's Quest II — Romancing the Throne

New generation of graphic adventures features animated characters guided by keyboard, joystick or full sentences. Fairy tale story has multiple solutions, scored according to cleverness, permits multiple playings. MS-DOS version \$49.95

Publisher: Sierra On-Line Format: \$69.95

Availability: Ingram, Radio Shack, STari

Mindshadow

You are an amnesiac, travelling across a mysterious island, avoiding perils in swamp, jungle and cave while in search of your identity. A strange bird, the Condor, helps vou along.

Publisher: Activision Format: Disk \$59.95 Price: Availability:

Beamscope, Ingram

Mindwalker

A physics professor goes mad. Publisher: Commodore Format: Disk \$79.95 Price: Availability: Commodore

Oo-Topos

Science-fiction adventure. Features text and graphics. Publisher: Penguin/Polarware

Format: Disk Price: \$19.95 (US) Availability: Ingram

Planetfall

You are freed of the overbearing presence of Ensign Blather when your starship suddenly explodes. You must survive on a strange and hostile world, aided only by Floyd, the somewhat demented robot. Pure text. C-64, Atari XL \$34.95 US.

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram, Radio Shack

Quest, The

As King Galt's newest advisor you must accompany his champion, Gorn, on a quest to rid the kingdom of a dragon. Over 200 locations, accepts multi-sentence instructions. Many alternate solutions. Text + graphics, two sides of a disk

Publisher: Penguin/Polarware Format: Disk \$34.95 (US) Price: Availability: Ingram

Rogue

Quest to find a mystical amulet hidden within a deep dungeon maze. Allows multiple plays, generates new dungeon maps. IBM version \$29.97 US.

Publisher: Ерух Format: Disk \$40.00 (US) Price: Availability: Ingram

Seastalker

Junior-level adventure is a challenge for all ages. Command a submarine on a dangerous mission. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram

Amiga

Software

Seven Cities of Gold

Role playing adventure based on the conquest of the new world. Discover the coastline, Caribbean islands. Land, explore, trade with the natives. Try to find a strategy for building a strong colony. C-64 and Atari version \$32.95 US.

Publisher:

Electronic Arts

Format: Disk

\$39.95 (US) Price: Availability: Beamscope, Ingram

Sequel to the Enchanter, and second in text adventure trilogy. Once again you are the novice wizard, now ensconced in the wizards' guild hall. Try to solve the mystery of the missing master wizard. C-64 and Atari XL versions

Publisher:

Infocom

Format: Price:

Disk \$44.95 (US)

Availability:

Ingram

Spellbreaker

Journey through magical world, solve puzzles. Pure text.

C-64 and Atari XL versions \$44.95 US

Publisher: Format:

Infocom

\$49.95 (US) Price: Availability: Ingram

Starcross

In the year 2186 you must pilot your starship, rendezvous with a gargantuan ship from another galaxy, and solve incredible alien puzzles. Pure text. Atari XL and C-64 versions \$44.95 US.

Publisher:

Infocom Format: Disk

\$49.95 (US) Price:

Availability:

Suspect

Murder mystery adventure. Pure text. C-64 and Atari XL

versions \$39.95.

Publisher: Format:

Infocom Disk

Ingram

\$44.95 (US) Price:

Availability: Ingram

Suspended

Unique combination of text adventure, board game, and simulation. You brain is connected to the Underground Complex. Using only your six peripheral robots you must minimize casualties by properly administering life support

systems

Publisher: Format:

Infocom Disk

\$49.95 (US) Price:

Availability: Ingram

Temple of Apshai Trilogy

Interactive adventure. Journey through a maze of over 200

rooms, filled with monsters and treasures.

Publisher: Format:

Epvx Disk

\$49.95 Price:

Availability: Beamscope, Ingram Transylvania

Popular graphics adventure has player fending off werewolves, vampires while in search of endangered Princess Sabrina. Available in double Hi-Res for Apple //e. IBM, ST, Macintosh version \$19.95 US. Amiga \$29.95

Publisher: Format:

Penguin/Polarware

Disk

Price: \$17.95 (US) Availability: Ingram

Wishbringer

Journey through a magical world, solve puzzles. Pure text C-64 and Atari XL versions \$34.95 US

Publisher:

Infocom Disk

Format: Price:

\$39.95 (US) Ingram

Availability:

Witness

In the pulp detective world of the thirties a case of black mail turns to murder. You have 12 hours to untangle a web of clues, motives and alibis, supported by police file of physical evidence. Pure text. C-64 and Atari XL versions \$34.95.

Publisher: Format: Price:

Infocom Disk

\$39.95 (US)

Availability:

Ingram, Radio Shack

Zork I: The Great Underground Empire

Armed with sword and lantern you venture down into the lost subterranean kingdom of Frobozz. Slay troll, solve puzzles, find treasures, evade the villanous thief. Pure text. Two sequels. TRS-80 version \$19.95. Atari XL and C-64 \$34.95 US.

Publisher: Format:

Infocom Disk \$39.95 (US)

Price: Availability:

Ingram, Radio Shack

Zork II: The Wizard of Frobozz

Discover a previously hidden section of the Underground Empire. Meet the Wizard, solve puzzles. Sequel to Zork I, but can be played on its own. Pure text. C-64 and Atari XL versions \$39.95 US

Publisher: Format:

Disk

Price: Availability:

\$44.95 (US) Ingram

Zork III: The Dungeon Master

Culmination of the Zork trilogy. You encounter the Dungeon Master himself, and your destiny hangs in the balance. Pure text. Atari XL and C-64 versions \$39.95

Publisher: Format:

Infocom

Price:

Disk \$44.95 (US)

Availability:

Ingram

ROLE-PLAYING GAMES

Command up to 6 characters as they search a magic world for the Nine Rings. Introductory level of difficulty. ST version scheduled for April.

Publisher:

Strategic Simulations Disk

Format: Price: \$39.95 (US)

Availability: Ingram

Wizard's Crown

Recover the Crown from behind spell-woven walls in the shattered ruins of Arghan. Create eight characters, search for clues and weapons among the maze of streets, buildings and dungeons. Intermediate level of play.

Publisher:

Strategic Simulations Disk

Format: Price: Availability:

\$39.95 (US) Ingram

SIMULATION GAMES

Unique variant on traditional chess, with odd creatures occupying squares that range through various shades rather than just black and white. Role-playing type conflict settles attacks of one piece on another. Graphic display of the

Publisher:

Electronic Arts

Format: Price:

\$49.95

Availability: Beamscope, Ingram

Archon II: Battle of the Mages

Sequel to original Archon chess-type game, based on similar combination of chess-board strategy and role playing action.

Publisher: Format:

Electronic Arts Disk

\$39.95 (US) Price:

Availability: Beamscope, Ingram

Games Gallery I, II and III

Set of three games packages. Each includes 15 games in the categories of space, gambling, sports and mind-teasers. Many of the games have varying skill levels, multi-player options. Price is per package.

Publisher: Meridian Software

Format: Disk Price: \$29.95 (US)

Halley Project, The

Learn astronomy while piloting your spacecraft around the solar system. Try to complete missions to each of the planets and return to your base on Halley's Comet. Navigate by constellation display. C-64, Atari versions \$29.95

Publisher:

Mindscape

Format: Price:

Disk \$49.95

Availability:

Beamscope, Ingram

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Amiga

Software

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Beamscope

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Publisher: Format: Price:

Mindscape Disk \$49 95

Availability:

Beamscope, Ingram

TECHNICAL PROGRAMMING LANGUAGES

Amiga Assembler

Provides full Motorola 68000 syntax, with macros, for software development. Includes linker, libraries and include files.

Publisher: Format:

Price:

Commodore Disk \$309.99 Commodore

Amiga LISP

Availability:

Implementation of the symbol-processing language extensively used in artificial intelligence applications.

Publisher: Format: Price.

Availability:

Commodore Disk \$309 99 Commodore

Amiga Pascal

Full ISO 7185 implementation of Pascal single-pass com-

piler Publisher:

Commodore Format: Disk \$309.99 Price: Availability: Commodore

dBC III Library

Over 70 C language functions that emulate various features of Ashton-Tate's dBase III database system. Allows virtually all dBase operations to be duplicated from C.

Publisher: Format: Price:

Lattice \$210.00

Availability: Ingram, Software Commodities

Lattice C Compiler

Amiga version of popular C language system. Many options: MS-DOS to Amiga cross-compiler \$250. dBC III libarary \$150. Make utility \$125. Text utilities \$75, including GREP, DIFF, BUILD, etc. MacLibrary \$100. 'Panel' screen designer \$195.

Publisher: Format: Price: Availability: Lattice Hard disk \$149.95 (US)

Software Commodities

Lattice MacLibrary

C language library to provide function compatibility with Macintosh 'Quickdraw' ROM routines. Allows experienced Mac programmers to make an easy transition to the Amiga, speeds porting of software.

Publisher: Format:

Price: \$140.00 Availability: Ingram, Software Commodities

Lattice

Metacomco Lattice C

Full K&R implementation. Feature powerful data types, separate compilation, macros, error handling including warning errors. No runtime license required for applications. Includes libraries, full-screen editor, linker.

Publisher: Format:

Antic, Metacomco Disk (2)

\$149.95 (US) Price:

Metacomco Macro Assembler

Complete development system, features macros, formatted listings, conditional assembly, cross-reference listings, 30-character variable names, etc. Includes linker and full-screen editor.

Publisher:

Antic, Metacomco

Format: Price:

\$79.95 (US)

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Fully ISO 7185 compatible, produces native 68000 code, addresses full memory space, allows very large sets and arrays, gives comprehensive error handling. Includes linker and full-screen editor

Publisher: Format: Price:

Antic, Metacomco Disk (2) \$99.95 (US)

TDI Modula-2

Complete 68000 development language, includes standard Wirth Modula plus machine-specific libraries. Creates native 32-bit code. Includes full screen editor with errorfinding capability.

Publisher: Format:

Price:

TDI Disk (2) \$119.95 STari

TDI Pascal

Availability:

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Publisher: Format:

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True BASIC

Upgraded BASIC interpreter from the authors of the original BASIC, following proposed ANSI standard. Includes features such as SELECT CASE, nested IF-THEN-ELSE-IF and DO-LOOP structures, matrix algebra, graphics, windows, editor, etc.

Publisher: True BASIC

Format: Price:

\$149.90 (US) Availability: Ingram

Disk

True BASIC Programming Libraries

Modules include Developer's Toolkit, PC BASIC Converter, Communications Support, Forms Management, Btrieve Interface, Hercules Graphics support, Sorting & Searching, String operations, 3-D graphics. Price is per library

Publisher:

True BASIC

Format: Price: Availability: Disk \$49.95 (US)

Ingram

True BASIC Runtime Library Contains everything needed to distribute software developed using the True BASIC Language System. Includes unlimited sales and distribution license.

Publisher:

True BASIC Disk

Format: Price:

Availability:

\$500.00 (US) Ingram

UCSD Pascal

Complete implementation of standard Pascal language. Includes text editor, on-line tutorial, 8087 coprocessor support, BCD support, etc.

Publisher: Format:

Pecan Software Systems Inc Disk

Price: \$79.95 (US)

OPERATING SYSTEMS

Amiga Transformer

Software emulator, allows the Amiga to run many popular MS-DOS packages written for the IBM PC and compatibles. Amiga 'Sidecar' hardware emulator to be available this fall.

Publisher: Format: Price: Availability: Commodore Disk \$149.99 Commodore

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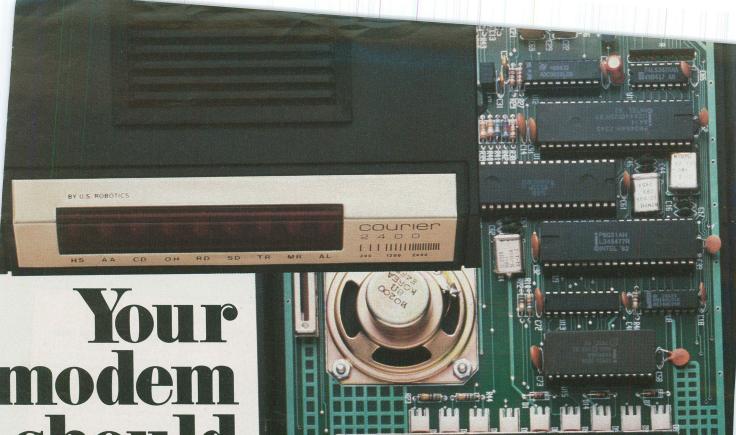
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Most public databases and bulletin board systems now offer 2400-bps service. In fact, more than a thousand bulletin board operators have chosen our Courier 2400—a demanding application that has proven the Courier's reliability and efficiency.

Circle No. 13 on Reader Service Card

Lawrence and Lee, playwrights ("Inherit the Wind," "Auntie Mame," "First Monday in October," and many other Broadway hits, motion pictures and teleplays) and educators (professors of Advanced Playwriting at UCLA and USC).

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like "help screens" and a printed operations summary on the back panel. You can find a modem for more money, but you can't find more modem for your money than Courier 2400.



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IBM PC AND COMPATIBLES SECTION



BEST Mark II

Manufacturer: Exceltronix
Processor: 8088
Standard RAM: 256
Maximum RAM: 640

 I/O Ports:
 serial, parallel

 Disk Drives:
 2x360K

 Text Display:
 80x25

 Hi-res Graphics:
 640x200

 Color Graphics:
 320x200

 Color palette:
 4 of 7

 Sound:
 yes

 Price:
 \$1595.00

With 20M hard drive, 640K RAM and single floppy, \$2895. Uses Phoenix BIOS. Features realtime clock, flip top case, up to 640K RAM on motherboard, and 150 watt power supply.

BEST Mark III

Manufacturer: Exceltronix Processor: 8088-2 Standard RAM: 256 Maximum RAM: 640 I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200

 Color Graphics:
 320x200

 Color palette:
 4 of 7

 Sound:
 yes

 Price:
 \$1895.00

With 20M hard disk, 640K and single floppy, \$3195. Switch-selectable clock speed either standard 4.77 Mhz or fast 8 Mhz.

SYSTEMS (DESKTOP)

AT&T 6300 Plus

 Disk Drives:
 2x1.2M

 Text Display:
 80x25

 Hi-res Graphics:
 640x200

 Color Graphics:
 320x200

 Color palette:
 4 of 7

 Sound:
 yes

Price: \$5095.00 (US)
Includes one 360K, one 1.2M floppy, keyboard and a monochrome monitor. Options include 20M hard disk, 512K RAM. Unix, 80287. Runs at 6MHz. Seven

expansion slots.

AVT-286
Manufacturer: Exceltronix
Processor: 80286
Standard RAM: 640
Maximum RAM: 640

Price: \$3495.00 Includes one 1.2M and one 360K floppy, plus realtime clock. With 20M hard disk, \$4950. Forty meg disks also

available.





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- auto-ranging function (except for current) has manual or automatic

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Special features include:

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- automatic polarity switching

HI TESTER

3214 DIGITAL

A compact pencil-type meter, the most valuable tool for use in troubleshooting and maintenance work in computer systems, as well as all other microcircuits. Special features include:

- automatic data lock
- auto power off to prolong battery life large range of AC/DC voltages up to 500V
- resistance ranges cover 200 ohms to 20 MEG ohms with resistance/continuity range protection up to 250
- easy-to-read 31/2 digit display

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Circle No. 14 on Reader Service Card

IBM

Hardware

BEST Mark IV

Manufacturer: Exceltronix Processor: 8086-2 256 Standard RAM: Maximum RAM: 640 I/O Ports: serial, parallel Text Display: 80x25 **Hi-res Graphics:** 640x200

Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves Price: \$2500.00

With 20M hard disk, 640K RAM and single floppy, \$3695. Features fast 16-bit 8086 processor operating on

PC-compatible 8-bit bus.

Compaq Deskpro 286 Model 2 Manufacturer:

Compaq Processor 80286 Standard RAM: Maximum RAM: 640 Disk Drives: 1x1.2M Hard Disk: 1x30M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound:

\$8699.00 (US) Price: Model 3 with 10M tape backup \$9849 US.

Epson Equity I

Manufacturer: Epson America Processor: 8088

Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: ves

Available From: Epson Canada \$1850.00

Motherboard has 3 option slots. Includes AT-style keyboard, MS-DOS 2.11 and GWBASIC. With 2 floppies, \$2095. With one floppy and 20M hard disk, \$3195.

Epson Equity II

Manufacturer: Epson America NECV30 Processor: Standard RAM: 640 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 1x360K Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound:

Available From: Epson Canada Price: \$2795.00

Uses NEC V-30 chip, compatible with 8086. With 3 option slots. Built-in Hercules graphics adapter, IBM compatible color graphics for RGB and composite output. Includes AT-style keyboard, MS-DOS 3.1, GWBASIC. With 20M hard disk, \$4395.

Epson Equity III

Manufacturer: Epson America

Processor: 80286 Standard RAM: 640 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 1x1.2M Text Display: 80x25 Hi-res Graphics: 640x200

Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves Available From: Epson Canada

\$5495.00 Price: Motherboard has 8 option slots. Includes AT-style keyboard, MS-DOS 3.1, GWBASIC. With 20M hard disk,

Full House

Manufacturer: CPU Electronic Systems

Processor: 8088 Standard RAM: 640 Maximum RAM: 640 I/O Ports:

serial, parallel Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound:

CPU Electronic Systems Available From:

Price: \$750.00

Assembled and tested single board combining 640K RAM, disk controller, clock/calendar, serial and parallel ports, 8087 socket. Runs at 8 Mhz. Requires case, power supply, display adapter, keyboard and monitor.

IBM 3270 Personal Computer

Manufacturer: IBM 8088 Processor: Standard RAM: 640 Maximum RAM: 2000 I/O Ports: parallel Disk Drives: 1x360K Hard Disk: 1x20M Text Display: 80x25 **Hi-res Graphics:** 720x350 Color Graphics: 720x350 Color palette: 4 of 7 Sound: ves **Available From: IBM** \$9200.00 Price:

Features vary depending on model. Provides concurrent operation of up to 4 host-interactive 3270 sessions, 6 PC-DOS applications and 2 notepad sessions. Graphics provide PC emulation plus 3270 modes.

IBM 3270 Personal Computer AT

IBM

Manufacturer: Processor: 80286 Standard RAM: Maximum RAM: 2000 I/O Ports: parallel Disk Drives: 1x1.2M Hard Disk: 1x30M Text Display: 80x25 **Hi-res Graphics:** 720x 35 **Color Graphics:** 720x350 Color palette: 4 of 7 Sound: Available From: IBM Price: \$12250.00

Provides concurrent operation of up to 4 host-interactive 3270 sessions, 6 PC-DOS applications and 2 notepad sessions. Graphics emulate PC modes or 3270.

IBM PCjr Family Computer Manufacturer: IBM

Processor: 8088 **Standard RAM:** 64 Maximum RAM: 512 I/O Ports: serial Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: yes, 3 voices **Available From: IBM** Price: \$2179.00

Includes 1 half-height floppy drive, 2 cartridge slots, cor-

dless keyboard.

IBM Personal Computer

Manufacturer: Processor 8088 Standard RAM: 256 Maximum RAM: 640 Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: Available From: IBM Price: \$3165.00

The original. Full-height floppy drives standard.

IBM Personal Computer AT

Manufacturer: IBM Processor: 80286 Standard RAM: 512 Maximum RAM: 640 Disk Drives: 1x1.2M Hard Disk: 1x20M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: **Available From:** IBM Price: \$8660.00

Price, standard features vary with model number. Price shown includes 20M hard drive, one 1.2M floppy

IBM Personal Computer AT

Manufacturer: **IBM** 80286 Processor: Standard RAM: 512 Maximum RAM: 640 Disk Drives: 1x1.2M Hard Disk: 1x30M Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: **Available From:** Price: \$9075.00

Includes 30M hard disk, 1.2M floppy. Clock speed up-

graded to 8MHz.

See Almost Free PC in the Software Catalogue on page 81.

Hardware

IBM Personal Computer PC XT

Manufacturer: 8088 Processor: 256 Standard RAM: Maximum RAM: 640 Disk Drives: 1x360K Hard Disk: 1x10M **Text Display:** 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: Available From: **IBM** Price: \$4495.00

Includes full-height floppy and 10M hard drive.

IBM Personal Computer XT

Manufacturer: IRM Processor: 8088 Standard RAM: 512 Maximum RAM: 640 I/O Ports: serial Disk Drives: 1x360K Hard Disk: 1x20M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: Available From: IRM \$4965.00 Price:

Enhanced Model. Features vary with model number, some have new enhanced PC keyboard. Price shown includes 20M hard disk, half-height floppy.

ITT XTRA XP

Manufacturer: Processor: 80286 Standard RAM: **Maximum RAM:** 640 Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves Price: n/a

XT compatible, runs 30% faster than AT.

Image 640K

Manufacturer: **Processor:** 8088 Standard RAM: 640 Maximum RAM: 640 I/O Ports: serial, parallel

Disk Drives: 2x360K **Text Display:** 80x25 **Hi-res Graphics:** 720x348 Sound:

London Computers Available From:

Price: \$1495.00

Includes realtime clock, game port, AT-style keyboard, Hercules-compatible display adapter. Also available with CGA-type display. Warranty 2 years on motherboard.

Image AT

Manufacturer: Processor: 80286 Standard RAM: 640 **Maximum RAM:** 640

serial, parallel I/O Ports: Disk Drives: 1x1.2M **Text Display:** 80x25 **Hi-res Graphics:** 720x348 Sound:

Available From: London Computers

\$2995.00 Price:

Includes 200-watt power supply, AT-style case and keyboard, manuals, diskettes, software, etc. Standard display Hercules-compatible monochrome graphics. Also available with CGA-type adapter.

Image Turbo

Manufacturer: Image Processor: 8088-2 Standard RAM: 640 Maximum RAM: 640 I/O Ports: serial, parallel

Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 720x348 Sound:

Available From: London Computers

Price: \$1595.00

Includes AT-style keyboard, game port, realtime clock, manual, software, diskettes, etc. Switch-selectable operation at 4.7 or 8.0 MHz. Hercules-compatible monochrome display, CGA-type also available. Warranty 2 years on motherboard.

Minolta PCW-1

Manufacturer: Minolta Processor: 80186 Standard RAM: 256 Maximum RAM: 640 I/O Ports: serial Disk Drives: 2x360K Text Display: 88x28 **Hi-res Graphics:** 640x200 Sound: Available From: Minolta Price: \$5795.00

Complete business system, includes 20 cps daisywheel printer, amber monitor. Includes word processing software, typewriter emulator, tutorial, four-function calculator, online help. Enhanced keyboard with separate cursors, extra keys.

Multitech Advance 900

Manufacturer: Multitech Processor: 80286 Standard RAM: 512 Maximum RAM: 512 I/O Ports: serial, parallel

Disk Drives: 1x1.2M Text Display: 80x25 **Hi-res Graphics:** 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves

Available From: Q Cal International

\$3395.00

Includes clock/calendar, two serial ports, enhanced keyboard with separate cursor pad, MS-DOS 3.1.

Multitech Plus 700

Manufacturer: Multitech 8088-2 **Processor** Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound:

Available From: Q Cal International \$1895.00 Price:

Includes clock/calendar, two serial ports, enhanced keyboard with separate cursor pad, MS-DOS 3.1.

Multitech Popular 500

Manufacturer: Multitech Processor: 8088 Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7

Sound:

Q Cal International Available From: Price: \$1495.00 Includes clock/calendar, MS-DOS-3.1.

SMF-XT

Manufacturer: Parts Galore Processor: 8088 Standard RAM: 256 Maximum RAM: 640 Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound. ves Available From: Parts Galore Price: \$995.00

Includes color graphics adapter, keyboard.

Sperry PC/IT Personal Computer

Manufacturer: 80286 Processor: Standard RAM: 512 Maximum RAM: 1024 I/O Ports: serial Disk Drives: 1x1 2M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: yes

Price: \$4340.00 (US)

Includes monochrome display and operating system. Eight expansion slots. Runs at 8 Mhz.

Tandy 1000

Manufacturer: Tandy Processor: 8088 Standard RAM: 128 Maximum RAM: 640 I/O Ports: parallel Disk Drives: 1x360K Text Display: 80x25 Hi-res Graphics: 640x200

Hardware

Color Graphics: 320x200 Color palette: 4 of 7 yes, 3 voices Sound: Radio Shack Available From: \$1599.00 Price:

Includes display adapter, keyboard, joystick port, DOS, BASIC and DeskMate integrated software package. Tandy 1000 HD with 10-meg hard disk, \$3299. External hard disk available, \$999.

Tandy 1200HD

Manufacturer: Tandy Processor: 8088 Standard RAM: 256 Maximum RAM: 640 I/O Ports: parallel Disk Drives: 2x360K Hard Disk: 1x10M Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves \$3299.00 Price:

Fully IBM compatible. Monitor, software not included.

Tandy 2000

Manufacturer: Tandy 80186 Processor: Standard RAM: 256

Maximum RAM:

I/O Ports: serial, parallel Disk Drives: 2x720K Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7

Sound: Available From: Radio Shack \$2499.00 Price:

Includes MS-DOS. Monochrome TTL display adapter included. Optional 640x400 monochrome graphics, \$439. Optional 640x400 color adapter shows 8 colors from 16color palette, \$189. Hard disk version with 10M hard disk and 1 microfloppy, \$3899.

Tandy 3000

Manufacturer: Tandy Processor: 80286 Standard RAM: 512 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 1x1.2M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: Available From: Radio Shack \$2599.00 (US) Price:

Ten-slot motherboard, 7 for AT cards, 3 for PC/XT. With

20M hard disk, \$3599 US.

Tava Sprite 640K

Manufacturer: Processor 8088 Standard RAM: 640 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: Hi-res Graphics: 80x25 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound:

\$1995.00 (US) Price:

Runs at up to 8 Mhz. Includes color graphics or monochrome card and composite green or amber monitor.

Texas Instruments Business Pro

Manufacturer: Texas Instruments 80286 Processor:

Standard RAM: 512 Maximum RAM: 640 serial, parallel 1x1.2M I/O Ports: Disk Drives:

Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves

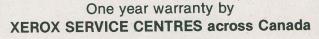
\$3995.00 (US) Price:

With 20M hard drive and 512K RAM \$5795. Runs at 6 Mhz. Includes 14 expansion slots. Options include tape backup, 30M hard disk, 360K floppy disk, TI type display adapter, IBM color graphics display, monitor, etc.

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ALSO AVAILABLE

IBM I

Hardware

Unitron U2904T PC

Manufacturer: Unitron Processor: 8088 Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K **Text Display:** 80x25 **Hi-res Graphics:** 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves **Available From:**

\$1095.00 Includes clock/calendar, game controller port, 150 watt power supply, 8 slots, AT style case and keyboard, choice of color graphics or TTL monochrome display adapter.

Gentek

Vectra

Price:

Manufacturer: Hewlett Packard

Processor: 80286 Standard RAM: 256 Maximum RAM: Disk Drives: 1x360K Text Display: 80x25 640x200 **Hi-res Graphics:** Color Graphics: 320x200 Color palette: 4 of 7 Sound:

Price: \$3199.00 (US)

Runs at 8 Mhz. 20M or 40M hard disk optional.

Victor V286

Manufacturer: Victor 80286 **Processor:** Standard RAM: 512 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 1x1.2M Hard Disk: 1x20M Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: Available From: **AMIES Inc**

\$4995.00 Includes MS-DOS 3.1 and VBASICA (compatible with

GWBASIC).

Price:

Victor VPC Manufacturer:

Victor Processor: 8088 Standard RAM: 256 Maximum RAM: 640 parallel I/O Ports: Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound:

\$1995.00 (US) Price: Monitor, display adapters, ports and hard disk all optional. WYSEDC

Manufacturer: Wyse 8088 Processor: Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: Price: \$1264.00 (US)

Low-profile desktop. Includes monochrome adapter, two slots, keyboard, MS-DOS, GWBASIC, and Wyse utilities. With one floppy and 10M hard disk \$2135 US. Expansion chassis adds 3 slots, \$365. Multifunction backplane adds 256K RAM, etc, \$190.

Zenith Z-158

Manufacturer: Zenith Data Syst.

Processor: Standard RAM Maximum RAM

I/O Ports: serial parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 Color Graphics: 320x200 Color palette: Sound:

\$2499.00 (US) Price: Includes color-graphics adapter. Runs at either 8Mhz

or 4.77 Mhz

SYSTEMS (PORTABLE)

Commuter

Manufacturer: Visual Computer Weight: 16 lbs (laptop)

8088 Processor: Standard RAM: 126

Maximum RAM: 512 I/O Ports:

serial, parallel 2x360K Disk Drives: Text Display: 80x16 **Hi-res Graphics:** 640x200 Color Graphics: 320x200 Color palette: 4 of 7 Sound: ves **Available From:** Nelma \$2995.00 Price:

Includes MS-DOS. Color display optional.

Compaq Portable

Manufacturer: Compaq Weight: 28 lbs (portable) Processor 8088

Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 Sound: ves Price: \$3699.00 Includes MS-DOS, BASIC

Compaq Portable 286 Model 1

Manufacturer: Compaq 31 lbs (portable) Weight: 80286 Processor:

Standard RAM: 256 640 Maximum RAM: Disk Drives: 1x1.2M Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: ves

\$2699.00 Price: Model 2 with 640K RAM and 20M hard drive \$8999 US. Model 3 with 10M tape backup \$10,149 US.

Compaq Portable II

Manufacturer: Compaq Weight: 24 lbs (portable)

Processor: 8088 Standard RAM: 256 Maximum RAM: 2150

I/O Ports: serial, parallel Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound: Price: \$5799 00

Compaq Portable II Model 4 with 20M hard disk, \$8149.

Corona 400 Portable

Manufacturer: Corona Weight: 30 lbs (portable) Processor: 8088

Standard RAM: 256 Maximum RAM: 512 Disk Drives: 2x360K Text Display: 80x21 Hi-res Graphics: 640x200 Sound:

Available From: NCI Nielsen Computers

Price: \$2615.00

Includes DOS, GWBASIC. Automatic switching of IBM graphics to hi-res alphanumeric graphics.

Data General One

Manufacturer: Data General Weight: 9 lbs (laptop) Processor: 8088 Standard RAM: **Maximum RAM:** Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x200

Sound: **Available From:** Data General \$3403.00

Includes single microfloppy disk drive, 5-1/4 drive optional. LCD screen, includes MS-DOS, terminal emulation, text edit, etc. Price shown is for 256K config-

uration.

Datavue Phase II

Manufacturer: Quadram Weight: 16 lbs (laptop) Processor: 8088 Standard RAM: 256 Maximum RAM: 1330 I/O Ports: serial, parallel Disk Drives: 1x360K Text Display: 80x25

Hi-res Graphics: 640x200 Sound: Available From: Chevco Price: \$2995.00

Includes infra-red keyboard, RAM drive, LCD screen. With backlit screen, \$3395. Second floppy and hard disk optional. Includes DOS, diagnostics.

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- 3K buffer parallel interface

- 1 year warrantyIBM & Apple compatible

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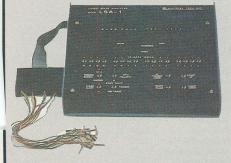
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20 pin Female header 24in. to 20 pin for Apple drives ..\$6.95





This card can program any one of the following EPROMs: 2716, 2732, 2732A, 2764 and 27128s. Two sockets are available on the adaptor board, one for the 28-pin EPROMs, the other for 24-pin types. These sockets are standard sockets, however as an option ZIF sockets can be used (we recommend ZIF sockets if large numbers of EPROMs will be programmed). Also as an option an extension board is available. This board attaches to the adaptor via a ribbon cable and extends out the back panel. This is to allow EPROMs to be programmed without removing the cabinet cover every time programming is to be performed. Also as a standard feature, the source software is supplied to allow users to modify the program to suit their needs.

As an option a serial port can be included on the card; this serial port has the same features as the port described with the floppy disk controller (see the floppy disk description for documentation of the serial port).

Serial Switch Box



Contains 3 RS232 connectors and a switch which switches all lines between input and one of two outputs

Spectacular Gang EPROM **Programmer & Emulator**

Totally self-contained (has its own display, entry keypad and power supply).

Based on the Z-8 microprocessor.

Can program up to 8 EPROM simultaneously (anywhere from one to 8 EPROMs at the same time with the information in its own memory or master EPROM).

The Gang Programmer can handle a wide selection of EPROMs: 2716, 2732, 2732A, P2732A, 2532, 2764, 27128, 27128A and optionally upgradeable to handle 27256, 27512, 2758 and 2724.

Complete package with EPROM Emulator, 8 ZIF sockets, Gang Programmer with 16Kx8 of RAM and RS232. \$995.00

Gang EPROM Programmer with 8 ZIF sockets, 16Kx8 RAM and RS232, without Emulator \$695.00

EMPROM Programmer with only one ZIF socket, 16Kx8 RAM and RS232, without Emulator. Able to do all the functions describe but can handle only one EPROM at a time

MAIN EPROM PROGRAMMER CARD (WITH SOFTWARE)

EPROM PROGRAMMER WITH ZIF SOCKETS (WITH SOFTWARE)

With one 24-pin. ZIF socket and one 28-pin ZIF socket

EXTERNAL CARD

Ready to plug into the main EPROM Card (includes one 24-pin and 28-pin ZIF socket and cable). Saves you from opening the computer each time you want to program your EPROMS......\$69.00

SERIAL OPTION

For your main EPROM programmer. Provides you with a second RS232 serial port

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319 College Street, Toronto, Ont. M5T 1S2 (416) 921-8941. Order line only 1-800-268-3798 Ottawa, 217 Bank Street (613) 230-9000

Visa, Mastercard and American Express accepted.

IBM .

Hardware

Ericsson Portable

Price:

Manufacturer: Ericsson Weight: 14 lbs (laptop) Processor: 8088

Standard RAM: 256 Maximum RAM: 512 Disk Drives: 1x360K Text Display: 80x25 **Hi-res Graphics:** 640x400 Sound: ves Available From: Ericsson

Plasma screen. Second floppy, printer, virtual disk optional. Includes MS-DOS, GWBASIC, diagnostics,

\$4400.00

Executive Partner (FT-70)

Manufacturer: Panasonic Weight: 29 lbs (portable) Processor: 8088

Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound: ves

Available From: Panasonic \$3995 00 Price:

Eleven-inch gas plasma display, built-in thermal printer. Includes MS-DOS, BASIC

Grid Compass II (1129/1131/1139)

Manufacturer: Grid Systems Weight: 10 lbs (laptop)

Processor: Standard RAM: Maximum RAM: I/O Ports: serial **Text Display:** 80x25 **Hi-res Graphics:** 640x200 Sound: **Available From:** Grid Systems \$11614.00

Amber electroluminescent display, 384K bubble memory, 300/1200 baud modem. Floppy or hard disk optional. Includes MS-DOS, GRID-OS

GridCase 2

Manufacturer: Grid Systems Weight: 12 lbs (laptop) Processor: 8088

Standard RAM: Maximum RAM: 640 Disk Drives: 1x720K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound: **Available From:** Grid Systems

Price: \$5085.00 Microfloppy drive, LCD screen. Four external, four inter-

nal ROM slots.

GridCase 3

Manufacturer: Grid Systems Weight: 12 lbs (laptop) Processor 8088

Standard RAM: 128 Maximum RAM: 640 Disk Drives: 1x720K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound: Available From: Grid Systems

Price: \$7022.00

Plasma display, microfloppy drive, 4 internal and 4 external ROM slots

IBM PC Convertible

Manufacturer: **IBM** Weight: 13 lbs (laptop) 8088 Processor: Standard RAM: 256

Maximum RAM: 512 Disk Drives: 2x720K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound:

IBM Dealers **Available From:** Price: \$3495.00

Detachable LCD display, RGB adapter optional. Serial/ parallel adapter, thermal printer, internal modem optional.

Kaypro 2000

Manufacturer: Kaypro Weight: 11 lbs (laptop) **Processor:** Standard RAM: 768

Maximum RAM: 768 Disk Drives: 1x720K Text Display: 80x25 **Hi-res Graphics:** 640x200

Sound: Available From: Coast Computers Price: \$3499.00

LCD display, battery pack, charger, modular construction. Includes MS-DOS, WordStar, MITE, etc.

Olivetti M-21 Transportable

Manufacturer: Weight: 29 lbs (portable)

Processor: 8088 Standard RAM: 256 **Maximum RAM:** 640 Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound: ves

Olivetti dealers **Available From:** Price: \$4300.00

Includes MS-DOS, GWBASIC, 9-in amber screen. Hard disk optional. Supports IBM extended graphics mode.

Panasonic Senior Partner

Manufacturer: Panasonio Weight: 32 lbs (portable) Processor: 8088

Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7 Sound: yes **Available From:** Panasonic Price: \$2795.00

Includes 9-inch monitor, RGB output, integrated thermal

printer, MS-DOS, BASIC.

See Almost Free PC in the Software Catalogue on page 81. Pivot II Manufacturer:

Pivot Computer 13 lbs (laptop)

Weight: 8088 Processor: Standard RAM: 320 Maximum RAM: 640 Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound:

Available From: SGV Marketing \$3444.00 Price:

LCD backlit display. Includes MS-DOS, NewWord; telecommunications software in ROM. Internal 20M hard disk, modem optional.

Portable PC

Manufacturer: Hewlett-Packard Weight: 9 lbs (laptop) Processor: 8088 **Standard RAM:** 272 **Maximum RAM:** 272 I/O Ports: serial Text Display: 80x16

Hi-res Graphics: 128x480 Sound: ves

Available From: Hewlett-Packard Price: \$5193.00

LCD display, 300 baud modem. Portable disk drive optional. MS-DOS, desktop manager, Lotus 1-2-3 built-in. Uses battery-powered RAMdisk for file storage.

Portable Plus

Manufacturer: Hewlett-Packard Weight: 10 lbs (laptop) **Processor:** 8088

Standard RAM: 256 **Maximum RAM:** 1310 I/O Ports: serial Text Display: 80x25 Hi-res Graphics: 640x200 Sound: ves

Available From: Hewlett-Packard Price: \$4795.00

Includes 1200 baud modem. LCD display. Uses batterypowered RAMdisk for files storage, ROMs for applications software, including Lotus 1-2-3, Multimate, etc. MS-DOS, desktop menu built in. Battery life of 20 hours. With 512K RAM \$6048.

Pro-Lite

Manufacturer: Texas Instrument Weight: 11 lbs (laptop) Processor: 8088

Standard RAM: 256 Maximum RAM: 768 Disk Drives: 1x360K Text Display: 80x25 Hi-res Graphics: 640x200 Available From:

Texas Instruments Price: \$2995.00 (US)

Uses backlit LCD screen, includes PC interface cable.

STM PC Portable

Manufacturer: Semi-Tech Micro Weight: 17 lbs (portable)

Processor: 8088 Standard RAM: 256 Maximum RAM: 512 Disk Drives: 2x720K Text Display: 80x25 **Hi-res Graphics:** 640x200

Sound:

Available From: Semi-Tech Micro Price: \$2100.00

LCD screen. Reads IBM format disks, includes MS-DOS.

IRM.

Hardware

Sanvo MBC665

Manufacturer: Sanvo

Weight: 32 lbs (portable)

8088 Processor: Standard RAM: 256 Maximum RAM: 640 Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200

Sound: yes **Available From:** Sanvo \$2799.00

CRT monochrome screen, 7-inch. Includes MS-DOS,

GWBASIC.

Price:

Sanvo MBC775

Manufacturer: Sanyo

Weight: 41 lbs (portable) Processor 8088 Standard RAM: 256 Maximum RAM: 640 Disk Drives: 2x360K Text Display: 80x25

Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Sound: Available From: Sanyo

\$3495.00 Price: Uses 9-inch CRT color monitor. Includes MS-DOS,

GWBASIC.

Processor:

TI Portable

Manufacturer: Texas Instrument Weight: 30 lbs (portable)

8088

Standard RAM: 128 Maximum RAM: 768 I/O Ports: parallel Disk Drives: 1x360K **Text Display:** 80x25 **Hi-res Graphics:** 720x300

Color Graphics: 320x200 Sound:

Available From: Texas Instruments

Price: \$2795.00 (US) Nine inch screen. Second floppy optional.

Toshiba T1100

Manufacturer: Toshiba Weight: 9 lbs (laptop) Processor 8088 Standard RAM: 512

Maximum RAM: 512 Disk Drives: 1x720K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound:

Available From: Genamation Price: \$3195.00

LCD display, one built-in microfloppy. Includes Ready! External disk drive, 300 baud modem board and PCLink optional.

Zenith Z-138 Transportable PC

Manufacturer: Zenith Data Syst Weight: 24 lbs (portable)

Processor: 8088 Standard RAM: 256 Maximum RAM: 640 Disk Drives: 2x360K Text Display: 80x25 Hi-res Graphics: 640x200 **Color Graphics:** 320x200 Color palette: 4 of 7

Sound: Available From:

Zenith Data Systems Price:

Includes 7-inch amber CRT display

Zenith Z-160 PC Portable (21/52)

Manufacturer: Zenith Data Syst Weight: 40 lbs (portable)

Processor: 8088 Standard RAM: 128 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200

Color Graphics: 320x200 Color palette: 4 of 7 Sound:

Available From: Zenith Data Systems

Price: n/a

Includes 9-inch amber monitor. Model 21 has one floppy and 128K RAM, model 52 two floppies and 320K.

Zenith Z-171 Portable PC

Manufacturer: Zenith Data Syst Weight: 14 lbs (laptop) Processor: 8088

Standard RAM: 256 Maximum RAM: 640

I/O Ports: serial, parallel Disk Drives: 2x360K Text Display: 80x25 **Hi-res Graphics:** 640x200 Sound:

Available From: Zenith Data Systems

Price:

LCD backlit display. Work scheduler, calendar, clock software in ROM.

EXPANSION HARDWARE

ABM PS-SC1, PS-SC2

Function: I/O port Manufacturer: ABM **Available From: EMI** \$383.00 Price:

Provides 1 or 2 fully addressable synchronous ports. Price

shown is for PS-SC1, single port version.

ABM Superboard

multifunction **Function:** ABM Manufacturer: **EMJ Available From:** \$423.00 Price:

Include space for 384K RAM, game, serial and parallel ports, plus clock/calendar and utility software. Price shown is with clock. Game, clock and serial \$448. Game, clock, serial and printer \$480. All prices for 0K RAM.

AST FastPak

Function: auxilliary processor Manufacturer: AST Research \$500.00 (US)

'Turbo' card based on 8086, runs 9.54 MHz, includes 8K 'two-set' cache. Speed switch selectable. Optional 8087 math coprocessor. Compatible with Lotus-Intel EMS expanded memory software and hardware.

AST RAMpage!

Function: memory expansion Manufacturer: AST Research \$495.00 (US)

Provides up to 2M of RAM using the Lotus-Intel EMS expanded memory standard. Uses a more flexible paging scheme to allow faster performace.

Above Board

Function: memory expansion

Manufacturer: **Available From:** Ingram Price: \$495.00 (US)

Expanded memor board based on Lotus-Intel bank switching standard. Accepts up to 2M of RAM. Price shown is

for board with 256K. With 2M, \$1395 US

Above Board PS

Function: memory expansion

Manufacturer: Intel Price: n/a

The original Lotus-Intel-Microsoft memory board, expands RAM from 256K system total up to 1.5M. Includes serial port, parallel printer port, realtime clock, print buffer and RAMdisk

Adaptec Controller

Function: disk controller Manufacturer: Adaptec **Available From: EMJ** Price: \$395.00 Hard disk controller, with cables

Advantage!

Function: memory expansion

Manufacturer: AST Price: n/a

Allows memory expansion up to 3M using 'Split Memory Addressing'. Includes serial port (second port optional), parallel printer port and game port, plus RAMdisk software, DESQview, SideKick and SuperPak.

Baseboard

I/O port **Function:**

Manufacturer: Scientific Solutions Available From: **EMJ**

Price: \$595.00 Allows user to construct custom digital multifunction

boards, provides 4 sections of 24-line TTL input and output. Takes up to 4 daughter boards, including optoisolation output, opto-isolation input, and prototyping, \$207 each. Cables \$38.

CMS Plus-Pack

Function: multifunction Manufacturer: **CMS** Pri ce: \$290.00 (US)

Features RAM expansion, serial port, parallel port, etc.

Short-slot size, low power.

AT COMPATIBLE

JAPANESE QUALITY AT AFFORDABLE PRICES



ELTA"HAS IT NOW!



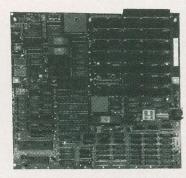
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- 6 Mhz 1 Wait State
- 95 Key Enhanced Keyboard
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HARD/FLOPPY CONTROLLER

IRM.

Hardware

Can-Am ANADIG

Function:

I/O port Manufacturer: Can-Am Designs **Available From:** EMI

Price: \$550.00

Features 16 ended or 8 differential analog-to-digital channels and one digital-to-analog channel. Voltage range is 0 to 5 volts. Uses DB25 connector.

Can-Am Clock/Calendar

Function: (special) Manufacturer: Can-Am Designs

Available From: EMJ \$75.00 Price: Battery backed-up clock/calendar.

Can-Am Color Graphics Board Function: display adapter Manufacturer: Can-Am Designs

Available From: EMI Price: \$339.00

A direct replacement for the IBM color graphics adapter.

Can-Am DIDO

Function: I/O port Manufacturer:

Can-Am Designs Available From: **EMJ**

\$125.00 Price:

Features 48 digital I/O lines.

Can-Am EEPROM Programmer/Reader

Function:

(special)

Manufacturer: Can-Am Designs Available From: EMI

Price:

\$550.00

For programming most EPROM chips.

Can-Am Games Port

Function: I/O port Manufacturer: Can-Am Designs

Available From: **EMJ** Price: \$50.00

Provides one IBM joystick port. Special splitter allows 2

joysticks to operate, \$25 extra.

Can-Am Memory Board

Function: memory expansion Manufacturer: Can-Am Designs

Available From: EMJ \$249.00 Price:

Offers space for up to 512K RAM. Price shown is for 0K.

Can-Am Monochrome Graphics Board

Function: display adapter Manufacturer: Can-Am Designs Available From: **EMJ**

\$400.00 Price:

Hercules-compatible display adapter, provides text and graphics on IBM TTL monochrome monitors. Includes

built-in printer port.

Can-Am Multifunction Board

Function: multifunction Manufacturer: Can-Am Designs

Available From: **EMJ** \$343.00 Price:

Features up to 384K RAM, serial port, parallel port, clock/ calendar, plus utility software. Price is for 0K RAM.

Can-Am Parallel Port

I/O port **Function:** Manufacturer: Can-Am Designs

Available From: EMJ Price: \$50.00

Provides a single parallel printer port.

Can-Am Parallel/Serial Adaptor

Function: I/O port Manufacturer: Can-Am Designs Available From: **EMJ**

\$165.00 Price:

Provides parallel and serial ports for AT compatibles.

Can-Am ProtoAT

(special) Function: Manufacturer: Can-Am Designs Available From: EMI

\$66.00 Price:

General-purpose prototyping card for designing PC or AT

Can-Am Serial Port

Function: I/O port Manufacturer:

Can-Am Designs Available From: **EMJ**

\$75.00 Price:

Features a single RS-232 port, with space for a second.

Can-Am XtendAT

Function: (special)

Can-Am Designs Manufacturer: Available From: **EMJ**

\$150.00 Price:

Allows a card to be extended outside the AT or PC case for

easy troubleshooting. PC version \$140.

Copy II PC Option Board

Function: (special) Central Point Manufacturer: \$95.00 (US) Price:

Allows stock PC to duplicate almost all copy-protected

diskettes. Includes track editor software.

DADIO

Function: I/O port Manufacturer:

Scientific Solutions

Available From: **EMJ** \$682.00 Price:

Digital to Analog, Digital Input, Digital Output board, for applications requiring high-speed D/A conversions. Includes 4 D/A converters, 12-bit resolution. Cable set \$76

extra.

EGA Plus

Function: display adapter

Manufacturer: STB

n/a

Compatible with the IBM Enhanced Graphics Adapter, also provides 256K graphics memory on board. Includes PC Accelerator software package which provides up to 10 RAMdisks, 3 print spoolers and supports Lotus-Intel extra

memory.

EOgraph

Function: I/O port Manufacturer: EOtron

\$495.00 (US)

Smart printer buffer features vector-to-raster conversions, allowing plotter graphics such as CAD drawings to be quickly output on dot matrix printers. Allows mixing of text and graphic pages. Standard 128K RAM, 512K ver**Expanded Quadboard**

Function: multifunction Manufacturer: Quadram Available From: Chevco Price: \$495.00

Combines up to 384K RAM, Centronics parallel and RS-232 serial ports, game port, clock/calendar. Includes QuadMaster III utilities, PolyWindows DeskPlus desktop manager software. Price shown is for 0K. With 384K,

Gold Quadboard

Function: multifunction Manufacturer: Quadram Available From: Chevco

Price: \$975.00

Combines up to 640K RAM, Centronics parallel port, RS-232 serial port, clock/calendar, IBM CGA-compatible RGB and composite color video output. Includes utility software. Second parallel and serial ports \$155. With 384K RAM, \$1295.

Hercules Color Card

Function: display adapter Manufacturer: Hercules Available From: Ingram \$245.00 (US) Price:

Completely compatible with IBM color graphics adapter, but fits into a short expansion slot. Also includes parallel

printer port.

Hercules Graphics Card

Function: display adapter Manufacturer: Hercules Available From: Ingram \$499 00 (US) Price:

Combination monochrome text/graphics adapter. Works with many popular programs, including Lotus, AutoCAD, Microsoft Word, etc. Graphics resolution 720x348, character matrix 9x14. Includes parallel printer port.

Needs direct-drive monitor.

IEEE488 Interface

Function: I/O port

Manufacturer: Scientific Solutions Available From: **EMJ**

routines, \$164. Cables \$73

Price: \$682.00 Conforms to IEEE488 General Purpose Bus standard, functions as talker, listener and controller. Software support package of BASIC, compiled BASIC and FORTRAN

JLASER

Function: I/O port Manufacturer: Tall Tree

n/a

Piggyback to JRAM-3 board supports Canon-engine laser printers, allows printing of full-page graphics, page layout and typesetting functions.

JRAM-3

Function: memory expansion Tall Tree Manufacturer: \$269.00 (US) Price:

Two megabyte expansion RAM. Supports EMS bank switching standard.

IBM .

Hardware

Lab Master

Function: I/O port Scientific Solutions Manufacturer:

Available From: \$1719.00

Sophisticated data collection board. Basic version has 12bit accuracy, 30 Khz conversion rate, 16 single-ended or 8 differential inputs, 2 independent A-to-D converters. Many options available. Cable set \$112. LabPac software

Lab Tender

I/O port **Function:**

Manufacturer: Scientific Solutions

Available From: EMJ Price: \$855.00

An 8-bit A-to-D, D-to-A data collector board, with 32 single-ended or 16 differential analog inputs, 16 analog output channels, 50 Khz conversion rate. Cable set \$114.

Liberty-AT

Function: memory expansion Manufacturer:

Ouadram Available From: Chevco Price: \$795.00

Provides up to 2M RAM using EMS standard and DOS 3.0 protected mode. Daughter board takes RAM up to 4M. Can be stacked for up to 12M extended RAM. Price is for 0K. With 512K, \$1295. With 1M, \$1795. Daughter board \$475, or \$1495 with 1M.

Liberty-PC

Function: memory expansion

Manufacturer: Ouadram Available From: Chevco Price: \$525.00

Adds up to 2M of RAM using EMS standard, up to 4 may be stacked for 8M extra RAM. Also provides DOS memory up to 640K. Includes QuadMaster utilities, PolyWindows desktop management software. Price is for 0K. With 1M, \$1655. With 2M, \$2295.

MainLink

Function: I/O port Manufacturer: Quadram Available From: Chevco Price: \$1495.00

Provides 3278/79 terminal emulation, connects to IBM host mainframe. Includes software. Various versions available for remote or coax connections.

Orchid TinyTurbo 286

Function: auxilliary processor Manufacturer: Orchid Technology Available From: Ingram \$695.00 (US) Price:

Half-size accellerator board, based on 80286 CPU chip.

Includes 8K static RAM cache.

PC MacBridge

Function: I/O port

Manufacturer: Tangent Technologies Available From: McKenzie Brown Canada

Price: \$895.00

Installs in short slot, allows connection to AppleTalk network. Includes AppleTalk emulation software and LaserWriter driver, translates printer sequences to Adobe PostScript. Includes LaserScript, LaserGraph and Mail-Box software.

Palette Capture

Function: display adapter Manufacturer: Quadram Available From: Chevco \$1325.00 Price:

Captures images from NTSC or RGB video. Supports Palette Master 262,000-color display. Speed 8 pictures/sec at 640x400 resolution, 2 bit planes, 3 pictures/sec at 640x400 by 16 bit planes. Max resolution 640x480. Imageware software extra.

Palette Master

Function: display adapter Manufacturer: Quadram Available From: Chevco Price: \$1475.00

Emulates IBM CGA, or provides enhanced display featuring photo-quality 8-bit deep images, 256 colors onscreen chosen from palette of 262,000. Drives digital and analog monitor, simultaneously. Double piggy-back board, takes

Paradise Modular Graphics Card

Function: display adapter Manufacturer: Paradise Available From: Ingram Price: \$395.00 (US)

Combines monochrome and color graphics display modes without sacrificing standard software interface. Runs all PC software.

Protozoa

Function: I/O port

Scientific Solutions Manufacturer:

Available From: **EMI** Price: \$88 00

Full-size prototyping board for PC and compatibles.

Pure Data PDI1152SP, PDI1152SS

Function: multifunction Manufacturer: Pure Data Available From: Pure Data Price: \$869.00

Includes 2 serial or 1 serial and 1 parallel port. RAM up to 1 megabyte. Takes 256K RAM chips. Has 16450 UART on board, with 8250 UART emulation to allow PC or AT software to run on same serial port. Price is for minimum RAM configuration.

Pure Data PDI208SP, PDI208SS

Function: multifunction Manufacturer: Pure Data Available From: Pure Data Price: \$275.00

Includes realtime clock, RS-232 serial port, Centronics parallel port. Utilities include RAMdisk, spooler, device drivers, memory diagnostics, etc. PDI208SS has two serial ports, no parallel port, \$325.

Pure Data PDI256, PDI512

Function: memory expansion Manufacturer: Pure Data

Available From: Pure Data Price: \$599.00

Memory expansion, available with varying amounts of RAM on board. Price shown is for minimum installed Pure Data PDI456SP, PDI456SS

multifunction **Function:** Manufacturer: Pure Data **Available From:** Pure Data Price: \$907.00

Multifunction board, includes realtime clock, RS-232 serial port, software spooler, DOS device drivers, etc. PDI456SP has 1 serial port, 1 parallel, 256K RAM expandable to 576K. PDI456SS has 2 serial ports, no parallel

Pure Data PDIB512, PDIB128

Function: memory expansion Manufacturer: Pure Data Available From: Pure Data Price: \$2495.00

Provides 512K of non-volatile storage. Operates faster thatn floppy disk, needs no battery backup. Includes hard disk emulator with boot, write protect, password options. PDIB128 with 128K bubble memory, \$699.

Ouad3270 Gateways

Function: I/O port Manufacturer: Ouadram Available From: Chevco \$7495.00 Price:

Allows link between PC LAN and IBM host mainframe facilities. Price shown is for 8 Logical Units. For 32 LU's, \$9525. Gateway XLU external version, \$11295 for 8 LU kit, up to \$15725 for 64 LU.

Ouad3278

auxilliary processor Function: Manufacturer: Quadram

Available From: Chevco \$1475 00 Price:

Allows PC to emulate 3278/3279 PC display terminal. Includes software.

OuadEGA+

Function: display adapter Manufacturer: Quadram Available From: Chevco Price: \$925 00

Supports IBM standard CGA and EGA display, plus IBM monochrome and Hercules monochrome graphics.

QuadPort-AT

Function: I/O port Manufacturer: **Ouadram** Available From: Chevco Price: \$325.00

Adds Centronics parallel port, RS-232 serial port. Optional daughter card gives 4 serial ports, \$425.

QuadPort-PC

Function: I/O port Manufacturer: Ouadram Available From: Chevco Price: \$295.00

Adds Centronics parallel port, RS-232 serial port.

QuadSprint

Function: (special) Manufacturer: Ouadram **Available From:** Chevco, Ingram \$975.00

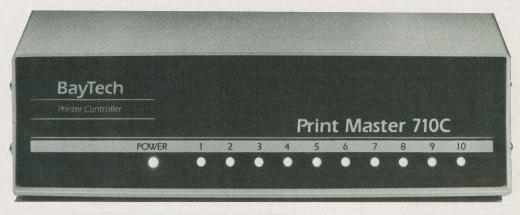
Uses 10 MHz 8086 processor to double processing speed of stock PC. Transparent to standard software packages such as Lotus, WordStar, dBase, etc. Includes 4K high-speed cache memory.

PRINTER SHARING AND PRINT BUFFERING **ALL IN ONE VERSATILE UNIT**

Print Master from BayTech is an intelligent printer controller that connects between your computers and printers. It allows you to share one printer automatically, contend for multiple printers automatically, or switch between several printers by sending a simple code. Plus, Print Master's built-in buffer spools data until your printer can receive it.

A VERY FLEXIBLE **PRINTER SHARER**

You configure Print Master's ports for any combination of printers and computers by answering questions from the easy-to-follow menus. For example, with the ten-port Print Master, nine computers can share one printer, eight computers can share two printers, seven computers can share three printers, and so on, to one computer which can share nine printers. You can also menu-select these features: the baud rate, word size, stop bits, parity, and XON/OFF handshaking; the disconnect time-out; and form feeds. Ports may be configured individually to translate for printers and computers using different configurations. All changes you make are saved in nonvolatile memory.



PRINT MASTER'S BUFFER KEEPS YOU WORKING

Since Print Master can accept data faster than your printer, you can dump a print job into Print Master's 512K buffer and then go on to another project. All connected users can send data to this common pool buffer, and they can be doing it at the same time, even if no printer is available. Data is stored in the buffer until it can be sent on a first-in-firstout basis to

the selected printer. If you need more memory, Print Master is optionally available with one megabyte buffer.

CONTROL PRINT OUTPUT FROM YOUR COMPUTER

If several users are sharing one printer, printer sharing is completely automatic. There are no codes to send. You simply perform your normal print operation. If you are sharing several identical printers, connection

is also

automatic. Again, you perform your normal print operation and are connected to the next available printer on a first-come-first-serve basis. Print Master will send data to all printers simultaneously to keep your printers running at full capacity.

If you are sharing several different printers, such as a letter printer, a laser-jet and a plotter, you do your normal print routine but insert a short printer select code (which you can define yourself) as the first characters of your data. The data is then routed to the selected printer. It's that easy.

CHOOSE SERIAL OR PARALLEL MODELS

706A (6 parallel ports)

706C (6 serial ports)

706D (4 parallel/2 serial)

708D (6 parallel/2 serial)

708C (8 serial ports) 710C (10 serial ports)

Want more details? Call or write BayTech at P.O. Box 387, Bay Saint Louis, MS 39520. Telex 910-333-1618.

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Circle No. 46 on Reader Service Card.



IBM.

Hardware

OuadVue

Function: multifunction
Manufacturer: Quadram
Available From: Chevco
Price: \$575.00

Monochrome display card, includes parallel port, serial port, clock/calendar, Soft Font and Font Editor software. Second serial port optional.

Quadboard AT

Function: multifunction
Manufacturer: Quadram
Available From: Chevco
Price: \$995.00

Combines printer port, two serial ports, plus EMS expanded memory. Adds from 128K to 3.5M of RAM. For AT class only. Includes QuadMaster III utility software package. With 512K, \$1595. With 1M, \$2495. With 1.5M, \$3595.

Quadcolor I

Function: display adapter
Manufacturer: Quadram
Available From: Chevco
Price: \$370.00

Color graphics, gives 16 40-column or 8 80-column text pages, 2 graphics pages, 2 foreground and 1 background color chosen from palette of 16 in IBM high-res mode. Extra ROM character sets available. Upgrade to Quad-color II, \$325.

Quadcolor II

Function: display adapter
Manufacturer: Quadram
Available From: Chevco
Price: \$695.00

All features of Quadcolor I, plus 136 color palette, 96K onboard memory, text/graphic overlay capability, sparkle-free display, IBM-compatible game port. Shows 16 colors in high-res, 136 in medium-res mode.

Quadgraph

Function: display adapter
Manufacturer: Quadram
Available From: Chevco
Price: \$655.00

Monochrome graphics card, provides 720x348 resolution.

RaceCard-286

Function: auxilliary processor Manufacturer: Mountain Price: \$695.00 (US)

Short-slot accellerator card based on fast-clock 80286 processor. Fits most PC/XT, runs AT software. Optional 80287. Supports most popular networks.

Silver Quadboard

Function: multifunction
Manufacturer: Quadram
Available From: Chevco
Price: \$595.00

Combines up to 640K RAM, Centronics parallel and RS-232 serial ports, game port, clock/calendar. Includes QuadMaster III utilities, PolyWindows DeskPlus desktop manager software. Price shown is for 0K. With 384K, \$1145.

SixPakPlus

Function: multifunction
Manufacturer: AST
Price: n/a

Combines memory expansion up to 384K, serial port, parallel printer port, realtime quartz clock-calendar, and optional game adapter. Includes DESQview, SideKick and SuperPak software packages.

Sublogic X-1

Function: display adapter
Manufacturer: Sublogic
Price: \$3000.00 (US)

Provides high-speed color graphics, realtime animation, etc. Includes custom language interfaces for BASIC, C, FORTRAN and Assembler.

Tecmar 1st Mate

Function: multifunction
Manufacturer: Tecmar
Available From: EMJ
Price: \$520.00

Includes serial port, parallel port, clock/calendar, up to 256K RAM, Treasure Chest of software, cables, and PAL lockout option.

Tecmar 2nd Mate

Function: I/O port Manufacturer: Tecmar Available From: EMJ Price: \$481.00

Includes 2 serial ports, 2 parallel ports, clock/calendar, 1 serial cable, 1 parallel cable, and PAL lockout option.

Tecmar 640 Plus

Function: memory expansion

Manufacturer: Tecmar Price: n/a

Memory expansion based on Lotus-Intel-Microsoft spec. Provides up to 2M of RAM above 640K. Up to 4 can be combined, for up to 8M total.

Tecmar Bosun

Function: I/O port
Manufacturer: Tecmar
Available From: EMJ
Price: \$295.00

Fits short slot of PC-XT, includes parallel port, serial port, and clock/calendar. Includes spooler software, clock driver, cables, and PAL lockout option.

Tecmar Captain

Function: multifunction
Manufacturer: Tecmar
Available From: EMJ, Ingram
Price: \$422.00

Features up to 384K RAM, serial port, parallel port, clock/calendar, Treasure Chest of software utilities, all cables, and PAL lockout option.

Tecmar Dynamic RAM Board

Function: memory expansion

Manufacturer: Tecmar

Manufacturer: Tecmar Available From: EMJ Price: \$471.00

Features up to 256K RAM. Includes RAMdisk and spooler software. Price shown is for 64K RAM.

Tecmar EGA Master

Function: display adapter
Manufacturer: Tecmar
Available From: EMJ
Price: \$645.00

Supports all IBM EGA, CGA and Monochrome adapter display modes. Optional serial port, \$80.

Tecmar Extender Card

Function: (special)
Manufacturer: Tecmar
Available From: EMJ
Price: \$165.00

Plugs into any PC slot, allows a standard expansion card to be run outside the cabinet, for easy servicing or modification. **Tecmar Graphics Master**

Function: display adapter
Manufacturer: Tecmar
Available From: EMJ, Ingram
Price: \$1132.00

High-resolution board for monochrome or color graphics. Provides up to 640x400 resolution in 16 colors, 720x700 pixels in monochrome. Compatible with Lotus, Graftalk, AutoCAD. HALO, MetaWindow, etc.

Tecmar Graphics Tender

Function: display adapter
Manufacturer: Tecmar
Available From: EMJ
Price: \$487.00

IBM color graphics adapter compatible. includes parallel port.

Tecmar Jr Captain
Function: multifunction
Manufacturer: Tecmar
Available From: EMJ
Price: \$675.00

Multifunction module for PCjr. Includes 128K RAM expandable to 512K, parallel port, clock/calendar, additional power supply, Treasure Chest of software. Snaps onto side of the PCjr.

Tecmar Maestro

Function: multifunction
Manufacturer: Tecmar
Available From: EMJ
Price: \$862.00

Single-level multifunction board features up to 2176K RAM, serial port with DB9 and DB25, parallel port, PAL lockout option, treasure chest of software, and all cables. Price is for 0K RAM. With 640K, \$1240. With 2176K, \$2050.

\$2050.

Tecmar Megafunction
Function: multifunction
Manufacturer: Tecmar
Available From: EMJ
Price: \$1458.00

Includes up to 1.25M of RAM, battery backed-up RAM-disk, parallel port, serial port, clock/calendar, Treasure Chest of software. Can boot from card, takes Daughter Board for up to 2M more RAM. Price shown is for 1.25M RAM.

Tecmar Scribe Master

Function: I/O port
Manufacturer: Tecmar
Available From: EMJ
Price: \$806.00

Contains 3 superfast serial ports, especially useful for high-speed computer-to-computer communications. Cables not included.

Tecmar Scribe Tender

Function: I/O port Manufacturer: Tecmar Available From: EMJ Price: \$318.00

Includes two serial ports, one parallel port. Cables not included.

Tecmar Wave

Function: memory expansion
Manufacturer: Tecmar

Available From: EMJ Price: \$489.00

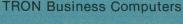
Fits PC-XT short slot, takes up to 256K RAM. Includes RAMdisk and spooler software. Price is for 64K RAM.

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TRON Turbo 8088-2 640K 8MHZ XT compatible



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IBM I

Hardware

Ultragraph 800

Function: display adapter Manufacturer: Ultragraphics Available From: **EMI** Price: \$1625.00

High-performance display adapter designed for CAD use. Provides 800x400 resolution with 16 colors. Flicker-and sparkle-free, 100% DOS compatible.

Unitron U-2951

Function: display adapter Manufacturer: Unitron **Available From:** Gentek Price: \$96.00

Compatible with IBM Color Graphics Adapter display

Unitron U-2953

Function: disk controller Manufacturer: Unitron Available From: Gentek Price: \$64.00

Supports up to 4 floppy drives, includes cables.

Unitron U-2956

Function: memory expansion Manufacturer: Unitron

Available From: Gentek Price: \$69.00

Provides space for up to 384K RAM, with selectable starting address and capacity. Price is for 0K.

Unitron U-2959

Function: display adapter Manufacturer: Unitron Available From: Gentek Price: \$135.00

Compatible with Hercules monochrome graphics display modes. Includes 80x25 text, 720x348 graphics, 2K static RAM display buffer to eliminate scrolling flicker, 18 KHz monitor interface. Also has built-in parallel printer port.

Unitron U-2960

Function: multifunction Manufacturer: Unitron **Available From:** Gentek \$149.00

Includes provision for 2 serial ports with one fully populated, clock/calendar with battery backup, printer port, game port and space for up to 384K RAM. Price is for 0K.

Unitron U-2961

Function: I/O port Manufacturer: Unitron Available From: Gentek Price: \$35.00 Provides single parallel printer port.

Unitron U-2963

Function: I/O port Manufacturer: Unitron Available From: Gentek Price:

Provides 2 IBM standard game controller ports.

Unitron U-2964

Function: disk controller Manufacturer: Unitron Available From: Gentek \$159.00

Supports 2 floppy drives. Includes parallel printer port, game port, clock/calendar with battery backup, RS-232 serial port with space for second serial port.

Unitron U-2965

Function: I/O port Manufacturer: Unitron Available From: Gentek Price: \$48.00

Provides space for 2 RS-232C serial ports. Price is for card with one port populated.

Victor SpeedPac 286

Function: auxilliary processor

Manufacturer: Victor AMIES Inc Available From: Price: \$995.00

Speed-up card based on 7.2 Mhz 80286, increases PC speed by 2 to 7-1/2 times. Optional 80287 math

coprocessor.

Western Digital Controller **Function:**

disk controller Manufacturer: Western Digital Available From: **EMJ**

\$395.00 Price: Hard disk controller, with cables.

STORAGE DEVICES

Hide-Away 20

Manufacturer: Trillium Computer Type: hard, internal Capacity: 20 megabyte

Available From: Trillium Computer Resources

\$1500.00

Hard disk mounted on controller card in shielded bracket, uses 1-1/2 expansion slots.

Microscience Subsystems

Manufacturer: Microscience hard, internal Type: Capacity: 20 megabyte Available From: **EMJ** Price: \$1275.00 Also 30M version, \$1595.

Mitsubishi MF501A

Manufacturer: Mitsubishi floppy, internal Type: Capacity: 360 kilobyte Available From: Gentek Price: \$149 00 Half-height drive for IBM compatibles.

Olivetti AM-616 Controller

Manufacturer: Olivetti Type: tape, external Capacity: 80 megabyte Available From: Olivetti Canada \$1295 00

Allows use of a standard VCR to backup hard disk data. Includes software. Needs 256K minimum RAM, DOS 2.1 or higher.

PC Xpander Expansion Chassis

Manufacturer: PC Xpander Type: hard, external Capacity: 20 megabyte Available From: **EMJ** \$1795.00 Price:

Expansion chassis alone, with 3 slots, space for 3 drives, \$995. With 20M drive and 60M tape, \$3395. With 60M drive, \$3295. With 60M drive and 60M tape, \$4925.

Plus + Hardcard

Manufacturer: Plus Development hard, internal Type: Capacity: 10 megabyte Available From: Compuserve \$1725 00 Price:

Self-contained disk-on-a-card, fits any PC compatible long slot. Includes INSTALL software plus Hardcard Directory menu system and PROGHELP installation help.

Priam ClusterTower

Manufacturer: Priam hard, external Type: Capacity: 75 megabyte **EMJ Available From:** \$15708.00 Price:

Support up to 8 users, LAN uses existing DOS, run 100% of existing software. Also in 164M, 292M versions. Includes tape backup, etc.

Priam DataTower

Manufacturer: Priam Type: hard, external Capacity: 75 megabyte Available From: EMJ \$13425.00 Price:

Freestanding hard disk system with 60M streaming tape backup. Also with 164M hard drive, \$15,800; with 292M drive, \$20,638.

Priam Innerspace ID40, ID60

Manufacturer: Priam hard, internal Type: Capacity: 42 megabyte Available From: EMJ \$2295.00 Price:

Full-height drives for PC and AT. Price shown is for 42M AT version. Also 60M AT version, \$2995; 60M for PC, \$2795; 90M for PC, \$3745. Installation kit for Compaq, external versions with power supplies also available.

QuadDrive SP10i

Manufacturer: Quadram Type: hard, internal Capacity: 10 megabyte Available From: Chevco \$1395 00 Price: Half-height, with 75 ms access time.

QuadDrive SP20iX, SP20AT

Manufacturer: Quadram Type: hard, internal Capacity: 20 megabyte Available From: Chevco \$1695.00 Price:

Half-height drive, 85 ms access time. SP20AT AT ver-

sion, \$1495.

QuadDrive SP72i, SP72AT Manufacturer: Ouadram hard, internal Type: Capacity: 72 megabyte Available From: Chevco \$5995.00

Internal, full-height drive with 28 msec access time, suitable for LAN file servers. SP72AT AT version \$5695.

IBM I

Hardware

QuadTape SPT20i

Manufacturer: Quadram
Type: tape, internal
Capacity: 20 megabyte
Available From: Chevco
Price: \$1795.00

Half-height drive, includes QuadTape menu-driven backup software for streaming or file-by-file transfer. Uses TEAC CT-500 tape cassettes.

QuadTape SPT60i

Manufacturer: Quadram
Type: tape, internal
Capacity: 60 megabyte
Available From: Chevco
Price: \$2995.00

Half-height drive. Includes QuadTape menu-driven backup software for streaming or file-by-file transfers. Uses ANSI standard X3.55 tape cartridge.

Racore Drive 2

Manufacturer: Racore floppy, external Capacity: 360 kilobyte Available From: EMJ

Price: \$995.00

Expansion module for PCjr. Adds second floppy with switch-selectable IBM PC emulation mode, parallel port and clock. Also takes RAM expansion: 256K for \$425 extra, 512K for 560. With 10M hard disk, \$2565.

Seagate 20MB

Manufacturer: Seagate
Type: hard, internal
Capacity: 20 megabyte
Available From: Gentek

Price: \$769.00 Includes controller and cables, one-year warranty

TCR 10S, 21S

Manufacturer: Trillium
Type: hard, internal
Capacity: 10 megabyte
Available From: Trillium
Price: \$860 00

Includes controller, cables, utilities, face plate. TCR 21S

21-megabyte version, \$930.

TCR 21F, 32F, 42F

Manufacturer: Trillium
Type: hard, internal
Capacity: 21 megabyte
Available From: Trillium
Price: \$1215.00

Full-height AT drive kits based on Seagate 4000 series voice-coil drives. Include cables and mounting hardware. TCR 32F 32-meg version, \$1500. TCR 42F 42-meg version, includes partitioning software to overcome DOS 32-

meg limit, \$2035.

TCR 21HSC, 33HSC, 33HSC-HS

Manufacturer: Trillium
Type: hard, internal
Capacity: 21 megabyte
Available From: Trillium
Price: \$1500.00

Half-height disk subsystems designed for Corona AT, Sperry IT, Compaq 286. Include Compaq 286 controller. TCR 33HSC 33-meg version, \$1785. TCR 33HSC-HS 38-msec access time high-speed 33-meg, \$2360.

TCR 21SC, 32SC, 42SC

Manufacturer: Trillium
Type: hard, internal
Capacity: 21 megabyte
Available From: Trillium
Price: \$1830.00

Full-height, high-speed disk subsystems designed for Corona AT, Sperry IT and Compaq 286, include Compaq 286 controller. TCR 32SC 32-meg version, \$2115. TCR 42SC 42-meg version, \$2400.

TCR 31S

Manufacturer: Trillium
Type: hard, internal
Capacity: 31 megabyte
Available From: Trillium
Price: \$1215.00

Includes Adaptec controller, cables, utilities, face plate. Uses 25 sectors per track for 48% more capacity, provides

7.5 megabit/sec transfer rate.

TCR 50S

Manufacturer: Trillium
hard, internal
Capacity: 50 megabyte
Available From: Trillium
Price: \$1645.00

Includes Adaptec controller, cables, utilities, face plate. Uses 25 sectors per track for 48% more capacity, provides 7.5 megabit/sec transfer rate. Also available as TCR 508-HS high-speed version, with 38 msec access time, \$2215.

TCR Hide-Away 20,30

Manufacturer: Trillium
Type: hard, internal
Capacity: 20 megabyte
Available From: Trillium
Price: \$1135.00

Hard disk on a card, featuring 72 msec average access time, on-screen indicator light, low 12-watt power consumption. Includes cache software, Mace Utilities, TCR utilities. Hide-Away 30 30-meg version with 7.5 mbit/sec transfer. \$1425.

TG-1020i Grasshopper

Manufacturer: Tallgrass
Type: tape, internal
Capacity: 20 megabyte
Available From: Tallgrass
Price: \$1695.00

Half height tape unit, with short-slot controller, plus XTREE file manager and BackTrack backup utility soft-

ware. Uses DC-2000 tape cartridge.

TG-2025i HopperCombo

Manufacturer: Tallgrass
Type: hard, internal
Capacity: 25 megabyte
Available From: Tallgrass
Price: \$3195.00

Combines Grasshopper internal tape drive with half-height 25M hard drive. Includes controller, XTREE and Back-

Track utility software.

TG-5535i, TG-5550i, TG-5580i

Manufacturer: Tallgrass
Type: hard, internal
Capacity: 35 megabyte
Available From: Price: n/a

Series of full-height hard drives with 35, 50 and 80 megabyte capacities. Includes DOS-like setup utilities, controller board capable of handling second hard disk and tape backup unit.

Tandberg Tape System

Manufacturer: Tandberg
Type: tape, internal
Capacity: 60 megabyte
Available From: EMJ
Price: \$1795.00
Internal tape backup system.

Tandon DiskCard 21

Manufacturer: Tandon
Type: hard, internal
Capacity: 21 megabyte
Available From: EMJ
Price: \$1695.00

Hard disk on a card.

Tandon External Subsystem

Manufacturer: Tandon
Type: hard, internal
Capacity: 20 megabyte
Available From: EMJ
Price: \$1295.00
External hard disk with power supply.

Tandon Subsystems

Manufacturer: Tandon
Type: hard, internal
Capacity: 20 megabyte
Available From: EMJ
Price: \$1295.00

Internal drives for the PC. Also 10M version, \$1195; 40M \$2395; 60M \$2595. Also available as external

units with power supplies.

Tandon TM100-2

Manufacturer: Tandon floppy, internal 360 kilobyte Available From: EMJ Price: \$349,00

Full-height floppy drive.

Tandon TM65-2

Manufacturer:TandonType:floppy, internalCapacity:360 kilobyteAvailable From:EMJPrice:\$299.00

Half-height drive, available for portable, PC or AT. AT

version with grey front, \$369.

Tandon TM703

Manufacturer: Tandon Type: hard, internal Capacity: 30 megabyte Available From: EMJ Price: \$2295.00

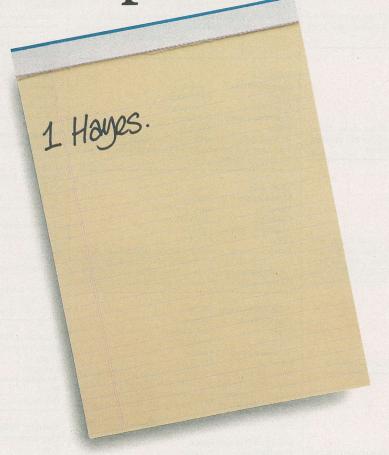
Full-height drive for the AT, 45 ms access time.

Tandy TCS-100

Manufacturer: Tandy
Type: tape, external
Capacity: 48 megabyte
Available From: Radio Shack
Price: \$2999.00

Backs up 10 megabytes in as little as 6 minutes. Uses standard 1/4-inch cartridges. Needs interface kit, \$229.95.

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Circle No. 16 on Reader Service Card

IBM I

Hardware

Tecmar QIC-60

Manufacturer: Tecmar Type: tape, external Capacity: 60 megabyte Available From: EMJ, Ingram Price: \$3493.00

Self-contained tape backup system. Offers menu-driven mode, command mode for batch operation. Backup speed up to 5M per minute, file or image transfer, online help, self contained power supply. Extra interface cards \$259.

Tecmar QIC-60 AT

Manufacturer: Tecmar Type: tape, internal Capacity: 60 megabyte Available From: EMJ, Ingram Price: \$2675.00

Fits the half-height second floppy slot of the IBM AT, includes cards and cables. Provides 60M of backup, file-by-file or image transfer.

Tecmar QIC-60 PC

Manufacturer: Tecmar Type: tape, internal Capacity: 60 megabyte Available From: EMJ, Ingram Price: \$2974.00

Tape backup unit mounted on a 360K floppy drive, ready

to install in a PC.

Tecmar QIC-60W20

Manufacturer: Tecmar
Type: hard, external
Capacity: 20 megabyte
Available From: EMJ, Ingram
Price: \$5495.00

Price: \$5495.00 Contains 20M hard disk plus 60M tape backup, includes 2 interface cards and cables, works with PC, XT or AT.

Backup file-by-file or image.

Videotrax

Manufacturer: Alpha Micro Type: tape, external Capacity: 80 megabyte Price: \$795.00 (US)

Interface card permits hard disk to be backed up on any VCR recorder, VHS or Beta format. Includes menu-driven software for tracking archives, setting up degree of redundancy, etc. With computer-controlled VCR unit, \$1595

US.

MISCELLANEOUS

ABM Col-Mon

Manufacturer: ABM

Function: Display Converter
Available From: EMJ

Price: \$106.00

Allows an IBM TTL monochrome monitor to be driven by a color-graphics compatible display adapter.

Ideal MS-808

Manufacturer: Ideal
Function: Joystick
Available From: Gentek
Price: \$29.95

Features fire button on shaft, dual buttons on base, selectable spring-centered or free-floating operation. Switchconfigurable for either Apple II or IBM. One-year warranty. **Idetix Digital Imaging System**

Manufacturer: Micron Technology
Function: Digital Camera
Price: \$695.00 (US)

Provides choice of OpticRAM imgage sensors, standard resolution of two 128x256 pixel arrays, max resolution of four 128x512 pixel arrays. Features remote camera head up to 100 feet from computer, 16mm C-mount lens, DMA data transfer, software.

Koala Pad

Manufacturer: Koala
Function: Graphic Controller

Available From: Ingram
Price: \$125.00 (US)

Handy lap-sized graphics tablet. Includes Micro-Illustrator paint program. IBM version \$150 US.

Kraft Joystick

Manufacturer: Kraft
Function: Controller
Available From: Ingram
Price: \$32.95 (US)

Two-button, proportional-control joystick. IBM version

\$39.95 US.

Logimouse

Manufacturer: Logitech
Function: Controller

Available From: Aldershot Alternatives

Price: \$235.00

Mouse controller claims twice the resolution of most other mice. Plugs into serial port. Compatible with AutoCAD, GEM, Lotus, Windows, etc. Includes Lotus interface software. LogiPaint set, including PC Paintbrush software, \$149 118

Manager Mouse

Manufacturer: Torrington
Function: Controller
Price: \$218.00 (US)

Plugs into RS-232 port. Features on-board microprocessor and self-contained drive mechanism. Works with most software. Includes KeyFree custom macro-key software. Also available with TelePaint graphics software, \$220 US.

MasterPiece

Manufacturer: Kensington Microware
Function: Surge Suppressor
Available From: Ingram

Price: \$149.95 (US)

Combines surge suppression, line noise filtering, 5 switched power outlets. Acts as monitor swivel base, provides static dissipation plate and master power switches.

Maynard Mouse

Manufacturer: Maynard
Function: Controller
Price: \$285.00 (US)

Intelligent Microsoft-compatible three-button mouse. Includes interface card, CustomKey macro software. Features programmable mouse functions, adjustable cursor speed, definable buttons, etc. Also includes Telepaint drawing program.

Microgrid II

Manufacturer: Summagraphics
Function: Graphics Tablet
Price: \$2585.00 (US)

Available in 5 sizes: 20x20 inch, price as shown; 17x24 for \$2685; 36x48 for \$4370; and 42x42 for \$5085. Accuracy of 1x10(-7) inch. All include power supply. Four or 16-button mouse. 1-button or barrel stylus optional.

MicronEye Bullet, Camera

Manufacturer: Micron Technology
Function: Digital Camera
Price: \$295.00

Uses lens to input digitized graphics, via interface card. Interfaces to Applesoft BASIC, Apple Pascal, C-64, TRS-80 CoCo or PC compatibles. Bullet Plus version has longer reach, \$395. Camera is boxed complete, with long cord, \$485.

Microsoft Mouse

Manufacturer: Microsoft
Function: Controller
Available From: Ingram
Price: \$175.00 (US)

Standard two-button PC mouse. Includes MS Menu language for creating pop-up mouse menus, setting button functions and motion sensitivity. Price is for serial version. Bus version with interface card \$195.

PC Mouse

Manufacturer: Mouse Systems
Function: Controller
Available From: Ingram
Price: \$195.00 (US)

Three-button optical mouse, includes inscribed mouse pad, power supply, Pop-up Menu Definition Language for creating menus, setting motion sensitivity, keystroke equivalents. Connects to serial port. Can emulate Microsoft Mouse.

Softstrip System

Manufacturer: Cauzin Systems
Function: Strip Code Writer/Reader

Price: \$199.95 (US)

Allows user to write or read special dot-coded bars, for storage of any data or program file. System includes Soft-strip reader unit and connectors, plus software to drive dot matrix printer for outputting strips.

SummaMouse

Manufacturer:SummagraphicsFunction:ControllerPrice:\$119.00 (US)

Includes driver and menu selection system to interface with popular software. Resolution of 100 dpi. 3 month warranty, estimated life 2000 miles

Tecmar Expansion Chassis

Manufacturer: Tecmar Function: Bus Expansion Available From: EMJ Price: \$1540.00

Provides 6 extra usable slots for PC, includes adaptor

boards, heavy-duty power supply.

Tecmar eSCAN

Manufacturer: Tecmar Function: Graphics Digitizer Available From: EMJ

Price: \$4065.00

Allows any document or picture to be digitized and displayed by computer. Converts text documents to ASCII files, with ability to 'learn' new fonts. Includes software, works with various displays, printers.

IBM.

Hardware

Unitech K-155

Manufacturer: Unitech Keyboard Function: Available From: Budgetron \$195.00 Price:

Improved layout based on Keytronics 5151, features auto switch between XT and AT modes, separate numeric and cursor pads, 10 function keys on top row, West German mechanical-contact switches, oversize Return, Shift and Control keys.

Videx Time Wand Manufacturer: Videx

Function: Bar Code Reader Price: \$347.00 (US)

Calculator-sized bar code scanner, comes with 2K internal memory, upgradeable to 16K. Automatically time stamps each code as read. Recharge/download station uses RS-232 connection. IBM software \$299 US extra, Mac software \$499 US.

PRINTERS

Brother M-1509

Manufacturer: Brother dot matrix Type: **Print Speed:** 180 cps **Print Modes:** draft, NLQ **Graphics:** yes Cut Sheet Feed: yes

Interface: serial, parallel Available From: Sak Data Products

\$780.00

Prints 4 near-letter quality fonts, at 45 cps. Extra NLQ font boards available. Prints graphics at up to 3264 dots per line. IBM PC character sets, Epson FX-100+ command

Epson FX-286

Manufacturer: dot matrix Type: 200 cps **Print Speed: Print Modes:** draft, NLQ **Graphics: Download Fonts:** Interface: parallel Available From: Epson Canada Price: \$1330.00

Prints near-letter quality at 40 cps. Built-in 8K buffer, friction and tractor feed. Epson FX commands and IBM Proprinter emulation, with extended IBM character sets.

Epson FX-85

Manufacturer: **Epson** Type: dot matrix **Print Speed:** 160 cps **Print Modes:** draft, NLO Graphics: Download Fonts: yes Interface: parallel Available From: Epson Canada \$849.00 Price:

Prints near-letter quality at 32 cps. Switch selectable Ep-

son or IBM modes

IBM Pageprinter

Manufacturer: laser Type: **Print Speed:** 12 ppm **Print Modes:** letter **Graphics:** yes Download Fonts: yes Cut Sheet Feed: yes Interface: serial **Available From: IBM** Price: \$1159.50

Includes 62 built-in fonts, can change fonts in mid-line, combine graphics and text, etc. With optional interface, up to 8 PCs can be connected. Two paper trays, each either letter or legal size. Graphics resolution 240x240 dots per

IBM Proprinter

Manufacturer: **IBM** Type: dot matrix **Print Speed:** 200 cps **Print Modes:** draft, NLQ **Graphics:** yes Download Fonts: yes Cut Sheet Feed: yes

Interface: serial, parallel **Available From:** IBM Price: \$869.00

Parallel interface standard, serial optional. Graphics resolution 480, 960 or 1920 dots per 8-inch line.

IBM Proprinter XL

Manufacturer: Type: dot matrix **Print Speed:** 200 cps **Print Modes:** draft, NLQ **Graphics:** yes **Download Fonts:** yes

Interface: serial, parallel Available From: **IBM** Price: \$1369.00

Provides usual text effects, 256-character downloadable font buffer. Graphics resolution 816, 1632 or 3264 dots per 13.6-inch line. Serial interface optional.

IBM Quietwriter

Manufacturer: **IBM** thermal Type: **Print Speed:** 60 cps **Print Modes:** letter **Graphics:** yes parallel Interface: **Available From:** IBM \$2199.00

Uses thermal-transfer matrix for quiet letter quality print. Graphics available on Model 2 only, IBM Graphics Printer emulation or 240x240 dots per square inch high resolution mode. Font cartridges available in many styles. Regular

IBM Wheelprinter

Manufacturer: daisy wheel **Print Speed:** 25 cps **Print Modes:** letter Cut Sheet Feed: yes Interface: serial, parallel Available From: **IBM** \$2969.00 Price:

Automatic sheet feeder included, takes single or multi-

strike ribbon cartridges.

Mannesman Tally MT 290

Manufacturer: Mannesman Tally dot matrix Type: **Print Speed:** 200 cps **Print Modes:** draft, NLQ Graphics: yes Cut Sheet Feed: ves

Interface: serial, parallel **Available From:** Sak Data Products \$1750.00 Price:

High speed draft print, 50 cps near-letter quality. Optional dual-bin sheet feeder, font cartridges. Includes IBM PC character set. Graphics up to 240 dots per inch.

Mannesman Tally MT 460

Mannesman Tally Manufacturer: Type: dot matrix **Print Speed:** 200 cps **Print Modes:** draft, NLQ **Graphics: Download Fonts:**

Cut Sheet Feed: serial, parallel Interface: **Available From:** Sak Data Products \$3790.00 Price:

Features 50 cps NLQ mode, graphics at up to 240x144 dots per inch, IBM/Epson compatibility. Plug-in modular interface gives RS-232 and other compatibility.

Mannesman Tally MT 490

Manufacturer: Mannesman Tally dot matrix Type: **Print Speed:** 400 cps **Print Modes:** draft, NLQ Graphics: yes Download Fonts: ves Cut Sheet Feed: yes

Interface: serial, parallel Sak Data Products **Available From:** \$4250.00

Features 150 cps NLQ mode, low-noise acoustic cover, Graphics at 60, 120 or 240 dots per inch horizontal, 72 or 144 dots per inch vertical. IMB/Epson compatible. Plug-in modular interface for RS-232 and others

Panasonic KX-P 1091

Manufacturer: Panasonic dot matrix Type: 120 cps **Print Speed: Print Modes:** draft, NLQ **Graphics:** yes **Download Fonts:** yes Interface: serial, parallel

Available From: Gentek \$429.00 Price:

Complete IBM and Epson emulation, built-in near-letter quality and proportional modes. Serial interface \$115 ex-

Panasonic KX-P 1592

Manufacturer: **Panasonic** Type: dot matrix **Print Speed:** 180 cps **Print Modes:** draft, NLQ Graphics: yes **Download Fonts:** ves Interface: serial, parallel **Available From:** Gentel \$725.00 Price:

Built-in near-letter quality mode, complete IBM and Ep-

son emulation. Serial interface \$115 extra.

IBM I

Tandy DMP-105

Manufacturer: dot matrix Type: 80 cps **Print Speed: Print Modes:** draft **Graphics:**

Interface: serial, parallel **Available From:** Radio Shack Price: \$279.00

yes

Removable adjustable tractor. Serial port is for Radio Shack Color Computer only. IBM-Epson software emulator available, \$39.95.

Tandy DMP-130 Manufacturer:

Type: dot matrix **Print Speed:** 100 cps **Print Modes:** draft, NLQ **Graphics:** Interface: serial, parallel Available From: Radio Shack Price: \$499.00

Draft and correspondence modes. Built-in tractor, auto paper insertion in single-sheet mode. Includes IBM ASCII character set. Serial interface is for Radio Shack Color Computer only.

Tandy DMP-2100P

Manufacturer: Tandy Type: dot matrix **Print Speed:** 124 cps **Print Modes:** draft, NLQ **Graphics:** ves **Download Fonts:** yes Interface: parallel **Available From:** Radio Shack Price:

Includes IBM PC character sets. Maximum 4896 dots per line. Font Editing Packages allow creating and loading of different type styles, \$34.95 each. Bidirectional tractor, \$159.95

\$1299.00

Tandy DMP-220

Manufacturer: Tandy dot matrix Type: 380 cps draft, NLQ **Print Speed: Print Modes: Graphics:** Interface: parallel **Available From:** Radio Shack Price: \$2399.00

Supports elongated, double-high, bold, underline, super/ subscript, italics and double strike. Prints up to 6 carbon copies. Includes complete IBM extended ASCII character set. Maximum 3916 dots/line.

Tandy DMP-430

Manufacturer: Tandy dot matrix Type: **Print Speed:** 180 cps draft, NLQ **Print Modes:** Graphics: serial, parallel Radio Shack Interface:

Available From: \$1299.00 Price:

Includes IBM PC character sets. Serial interface is for Radio Shack Color Computer only. Prints up to 2 carbon copies. Maximum 2640 dots per line.

Tandy DWP-220

Manufacturer: Tandy Type: daisy wheel Print Speed: 20 cps **Print Modes:** letter Interface: serial, parallel Available From: Radio Shack Price: \$899 00

Prints 10 cpi, 12 cpi, proportional. Includes forward and reverse paper feed, half-line feed, underline, programmable backspace. Serial interface compatible only with Radio Shack Color Computer. IBM-Epson emulator, \$39.95.

Tandy DWP-510

Manufacturer: Tandy Type: daisy wheel **Print Speed:** 43 cps **Print Modes:** letter **Cut Sheet Feed:** Interface: parallel Available From: Radio Shack Price: \$2199.00

Prints 10 cpi, 12 cpi, proportional. Forward and reverse paper feed, plus half-line feed. Interchangeable 124character wheels. Dual-bin sheet feeder, \$749. IBM-Epson emulator, \$39.95.

Tandy TRP-100

Manufacturer: Tandy Type: thermal **Print Speed:** 50 cps **Print Modes:** draft Graphics: Interface: parallel Available From: Radio Shack Price: \$399.00

Uses five 'C' batteries, or AC adapter (included). Built-in IBM PC compatible extended ASCII character set. Also has selectable Tandy special characters. Maximum 960 dots per line.

Tempest 220

Manufacturer: North Atlantic dot matrix, color **Print Speed:** 215 cps **Print Modes:** draft, NLQ **Graphics: Download Fonts:** Cut Sheet Feed: yes

Interface: serial, parallel Price: \$3890.00 (US)

Compatible with IBM and IDS color printers, as well as Epson, Diablo, Digital Equipment and Anadex escape commands. Includes 4 letter quality fonts, many others available as download. Prints 8 colors, graphics up to 144x144 dots/sq inch.

Toshiba P321

Manufacturer: Toshiba dot matrix **Print Speed:** 216 cps **Print Modes:** draft, NLQ, letter **Graphics:**

Download Fonts: Cut Sheet Feed: Interface: parallel **Available From:** Genamation Price: \$699.00 (US)

Offers Toshiba escape codes and Qume Sprint emulation. Takes plug-in font cartridges kit, \$99 US. IBM Graphics Printer emulation kit \$49, sheet feeder \$219. Parallel port standard, or \$749 US for combination serial parallel version.

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IBM =

Hardware

MODEMS

Asher 1200

Manufacturer: Quadram **Maximum Rate:** 1200 baud Auto Answer: yes **Auto Dial:** ves **Direct Connect:** yes Interface: internal Available From: Chevco

\$975.00 Includes AsherDOS system for calendar/task management, mini database, multitasking, etc. Works with DOS 2.1 or higher. Upgrade to 2400 baud, \$475.

Asher 2400

Manufacturer: Quadram Maximum Rate: 2400 baud **Auto Answer:** ves **Auto Dial:** yes **Direct Connect:** ves Interface: internal Available From: Chevco \$1325.00 Price:

Includes AsherDOS system for calendar/task management, mini database, multitasking, etc. Works with DOS

2.1 or higher.

BEST Smart Modem

Manufacturer: Multiflex Maximum Rate: 1200 baud **Auto Answer:** Auto Dial: **Direct Connect:** Interface: internal Compatibility: Hayes Available From: Exceltronix Price: \$379.00 300 baud version, \$179.

GVC Super Modem PC

Manufacturer: Maximum Rate: 1200 baud **Auto Answer:** yes Auto Dial: yes **Direct Connect:** yes Interface: internal Compatibility: Hayes

Available From: Gentek Marketing \$269.00

Maxwell Modem 1200PC

Manufacturer: Racal-Vadic Maximum Rate: 1200 baud **Auto Dial:** ves **Direct Connect:** yes Interface: internal

Available From: Canadian General Electr

Price: \$499.00

Includes George communications software

Phonegate 2400

Price:

Manufacturer: Tecmar Maximum Rate: 2400 baud Auto Answer: ves Auto Dial: yes Direct Connect: ves Interface: internal Compatibility: Haves Available From: EMJ Data Systems

\$1095.00 Includes Respond, Phone Management System software.

QuadModem II 1200

Manufacturer: Quadram Maximum Rate: 1200 baud Auto Answer: yes **Auto Dial:** ves **Direct Connect:** ves Interface: internal Compatibility: Haves **Available From:** Chevco \$695.00 Price:

Half-size card, includes CrossTalk XVI. Built-in speaker and volume control. Upgrade to 2400 baud, \$475.

QuadModem II 2400

Manufacturer: Ouadram Maximum Rate: 2400 baud **Auto Answer:** ves Auto Dial: ves **Direct Connect:** ves Interface: internal Compatibility: Haves Available From: Chevco \$1145.00 Price:

Half-size card, includes CrossTalk XVI. Built-in speaker and volume control.

Reach

Manufacturer: **Maximum Rate:** 1200 band **Auto Answer:** yes Auto Dial: yes **Direct Connect:** yes Interface: internal Compatibility: Hayes Available From: Compuserve Price: \$670.00 Includes Crosstalk XVI software.

Signalman Express

Manufacturer: Anchor Automation **Maximum Rate:** 1200 baud **Auto Answer:** ves **Auto Dial:** ves **Direct Connect:** ves Interface: internal Compatibility: Haves Available From: Computron Price: \$449.00

Uses half-size PC slot, includes LYNC software.

SmarTEAM 1200B

Team Technology Manufacturer: Maximum Rate: 1200 baud Auto Answer: yes Auto Dial: ves **Direct Connect:** Interface: internal Compatibility: Hayes **Available From:** Budgetron Price: \$399.00

Smartmodem 1200B

Manufacturer: Haves **Maximum Rate:** 1200 baud yes Auto Answer: Auto Dial: yes **Direct Connect:** yes Interface: internal Compatibility: Hayes **Available From:** Compuserve Price: \$815 00 With Smartcom II software, \$895.

Smartmodem 2400B

Manufacturer: Haves **Maximum Rate:** 2400 baud Auto Answer: yes **Auto Dial:** ves **Direct Connect:** ves Interface: internal Compatibility: Haves **Available From:** Compuserve Price: \$1195.00

Supports both asynchronous and synchronous modes through COM1 or COM2 ports. Uses HSD . Synchronous Driver. With Smartcom II \$1295

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IBM_{1}

Software

UTILITIES **DESKTOP MANAGERS**

DeskMate

Menu-operated desktop system, includes calendar, directory utilities, word processing, spreadsheet, filer, and telecommunications. Available for Tandy 2000, Tandy 1200, IBM PC and compatibles, TRS Model 4 and Color Computer.

Publisher: Format:

Tandy Disk \$249.95

Price: Availability:

Radio Shack

Get Organized!

Combines word-processor, address manager, calendar, appointment manager, index-card file, notepad, calculator, communications. Offers user-configurable win-

Publisher: Format:

Electronic Arts Disk (2) \$99.95 (US)

Price: Availability:

Beamscope, Ingram

Pop-Up DeskSet, Pop-Up DeskSet PLUS

Combines coresident utilities in the Pop-Ups series: Calculator, Word with Address Book and clipboard, PopDOS and Pop-Anything, Calendar, Voice dialer and Alarm Clock. DeskSet PLUS also includes modem communications, \$129.95 US.

Publisher:

Popular Programs

Format:

\$69.95 (US)

Sidekick

Desktop organizer, runs concurrently with most PC software, uses windows to display full-function calculator, memo pad, appointment calendar, ASCII character table, phone directory, and modem auto dialer. New Mac version supports Mac Plus.

Publisher:

Borland International

Format: Price:

Disk \$99.95 (US) Availability: Ingram

Powerful electronic calendar system. Allows management of several separate calendars. Includes linked phone directory, letter writing, online calculator, etc. Written in com piled dBase, can import dBase or text files.

Publisher:

FS Systems

Format: Price:

Disk \$69 00

FILE MANAGERS

APX Core Executive

Command-driven windowing interface, runs up to eight concurrent applications in windows, wtih cut-and-paste between windows. Also allows macro programming, up to 16 macros with up to 1024 keystrokes each.

Publisher: Format:

Application Executive Corp

Hard disk

Price:

\$95.00 (US)

BackTrack

Fast, easy-to-use hard disk backup utility. Backs up to multiple floppies, second hard drive or tape. Operates in background mode, duplicates updated files at regular intervals, pauses while foreground is in use. Menu driven with

Publisher: Format:

Disk \$275.00 Tallgrass

Price: Availability:

dCAT

For users with exploding disk usage, this utility reads disk directories and compiles them into a powerful database, offering file annotation and complete searching, sorting and indexing capabilities.

Publisher: Format:

FS Systems Disk \$24.95

Price:

DESOview

Concurrent, windowing DOS shell system. Pop-up menus allow various popular applications to be run in windows, with cut-and-paste between windows. Supports mouse. New version will support AST RAMpage extended memory card.

Publisher:

Quarterdeck Office Systems

Format: Hard disk Price: \$99.95 (US) Availability: Ingram

DOS Services

Menu operated DOS file manager. Presents disk directory window, allows file manipulations such as copy, rename, delete, etc. Runs selected application files, prints, dumps files as characters or hex values

Publisher: Format: Price:

Getc Software Disk \$70.00

IBM Document Retrieval Assistant

Locates specific data within text files, retrieves files by keywords. Ranks retrieved files by degree of match to key text, adds notes to file summaries to simplify identification of files.

Publisher: Format: Price:

Availability:

IBM Disk \$214.99 IBM

IBM Fixed Disk Organizer

Allows creation of simple menus for selecting application programs, gives easy access to complex DOS commands, creates custom help texts and batch files, give password protection. Subdivides applications by categories.

Publisher: Format: Price:

Availability:

IBM Disk \$69.99 **IBM**

Menu driven, windowing file management shell system. Locates text files containing specified search phrases, allows browsing of documents, links files by common topics, automatically call word processor, copy files, archive,

Publisher: Format:

Availability:

Price:

Pearlsoft Disk (2) \$95.00 (US) Allows user to set up custom menus for organizing a hard disk. Prompt-driven installation for selected applications software. Allows menus to be nested, password protected,

Price:

Lazy Susan

Publisher: Format:

Getc Software Disk \$70.00

Menu System

Menu generator and file management shell system. Allows user to set up custom menu of applications. Menus contain up to 19 items, controlled by simple configuration files, may be nested. Includes 3 minute screen saver blanking function

Publisher: Format:

Cottage Industries

Disk

\$49.95 (US) Price:

Micro C Shell

Unix-like shell environment for the Atari ST or IBM PC. Mimics standard Unix command line operation. Includes C library utilities.

Publisher:

Beckemeyer Development Tools

Format: Disk \$49.95 (US) Price:

Microsoft Windows

Friendly, powerful multitasking windowing environment for DOS. Provides sophisticated window management, mouse support. Includes several utilities: Paint, Calculator, Cardfile, Notepad, Terminal and Write.

Publisher: Format: Price: Availability: Microsoft Corp Hard disk \$99.00 (US) Ingram

User-friendly DOS interface, allows user to copy files, erase, move, find, etc. Accesses selected word processor automatically, does hex dump, hides files, displays directory tree. Customizable colors. Not copy-protected.

Publisher: Format: Price:

Gazelle Systems Disk \$69.95 (US)

TopView

User-friendly, concurrent, windowing interface for DOS. Allows multiple programs to be run simultaneously in windows, with cut-and-paste between windows. Incorporates many DOS functions. Includes tutorial.

Publisher:

IBM Hard disk Format: \$199 99 Price: Availability: **IBM**

WindowMaster

Menu-driven DOS interface, allows up to seven concurrent applications programs to share PC RAM, pop up in windows. Allows creation of user-defined menus, color customization, macros, etc.

Publisher:

Indian Ridge Enterprises Inc

Format: Price:

Hard disk \$29.95 (US)

MISCELLANEOUS

BASIC Librarian Concept

Editing and library system for use with Thoroughbred Business BASIC. Includes full-screen editor, supports structured code, provides ability to build libraries of routines to be included into executable code at compile time,

Publisher:

Concept Omega

Format:

Price: \$795.00 (US)

Copy II PC

Backs-up protected PC disks. Uses all available memory to speed transfers. Includes disk speed test.

Publisher:

Central Point Software

Format:

Price:

Disk \$39.95 (US)

Disk Optimizer

Reorganizes disk files to improve access times. Recombines dispersed file clusters, storing files in contiguous blocks. Includes visual performance analyzer, password file security program, and file 'peeker'

Publisher:

SoftLogic Solutions

Format:

Disk

Price:

\$49.95 (US)

Availability: Ingram

Fastback

Fast hard disk backup system. Claims backup of 10 megabytes to floppies in 8 minutes on PC/XT, 4 minutes on AT. File-oriented, menu driven, with advanced error-correction built-in. Uses one or two floppy drives.

Publisher: Format:

Fifth Generation

Price:

Hard disk \$179.00 (US)

Availability:

Ingram

Filelok

Special 'fingerprinted' diskettes and locking software. Files are encrypted on master disk, can be copied but require key disk to read. Optional password protection. Works with hard disk, single floppy and network systems. Publisher:

Format:

Vault Disk

Price:

\$785.00

Availability:

Dwenco, Datalok

IBM PC Print Screen Utility Program

Lets you quickly and easily print color graphics to and IBM PC Color Printer. Also supports IBM Proprinter, converts colors to shades of grey

Publisher: Format:

IBM Disk

Price: Availability: \$54.99 **IBM**

IBM Personal Computer SORT

Offers multiple sort fields, logical operations, fixed or variable length records. Can be used from DOS, from batch files, or called directly from IBM COBOL pro-

grams

Publisher: Format:

IBM Disk \$279 99

Price: Availability:

IBM

Extended keyboard macro utility. Remembers keystrokes, provides co-resident access to DOS functions, creates popdown menus, configures printer, etc. Allows cut-andpaste to macros, to file or to printer. Supported by a special RRS

Publisher:

Alpha Software Corp

Format: Price:

Disk \$89.95 (US) Ingram

Availability:

Lightning

Disk caching utility promises to make programs with disk access run 2 to 4 times faster. User definable buffer keeps most often accessed disk information in RAM. Works with Above Board RAM expansion card. Copy protected version \$49.95 US

Publisher:

Personal Computer Support Group

Disk

Format: \$89.95 (US) Price:

Mace Utilities Set of hard disk utilities for the IBM PC. UnFormat restores files on accidentally formatted drive. UnDelete recovers deleted files. Remedy locks out bad sectors. Reclaim extracts files from unreadable disks. Condense un-fragments files

Publisher:

Paul Mace Disk

Format: Price:

\$69.95 (US)

Micro C Tools

Set of UNIX-style tools for text editing and program de-

bugging. Publisher:

Beckemeyer Development Tools

Format: Disk

Price:

\$24.95 (US)

Micro Make

Format:

Automatically builds programs. Creates batch files or executes compiler/linker directly.

Beckemeyer Development Tools Publisher:

Disk

\$34.95 (US) Price:

Norton Commander, The

Provides 'point and shoot' access to DOS operations. Changes directory, runs application automatically for specified data file, deletes, copies. Custom user menus, keyboard or mouse operation.

Publisher: Format:

Peter Norton Hard disk

Price: Availability:

n/a Ingram

Norton Utilities, The

Perhaps the definitive disk utility kit, from computer guru Peter Norton. Includes useful functions like file undelete, file search, disk diagnostics, sector editor, screen color configuration and more

Publisher: Format:

Peter Norton Disk

\$100.00 (US) Price:

Availability:

Complete set of DOS co-resident disk tools. Includes Undelete, Format, Copy, Look, Search, and Print. Display either ASCII or Hex. Use from within any other program. Not copy-protected.

Publisher: Central Point Software Inc

Format:

Disk

Price:

\$39.95 (US)

Coresident PopUp emulation of Hewlett Packard 12C financial calculator. Includes all calculation, financial and programmable features of the real thing.

Publisher: Format:

Popular Programs Disk

Price:

\$69.95 (US)

PrintO

Mainframe type print spooler, stores printer stream on disk, prints in the background. Spooled data can be controlled and viewed at any time using pop-up Status Display. Allows pause, hold, archive and queue at any time.

Publisher: Format:

Software Directions Disk

\$149.00

Price: Availability:

Comsense Datasystems

ProKey 4.0

Keyboard macro-programming utility for the PC. Once installed, allows macros to be interactively assigned to any key or SHIFT/ALT/CTRL combination. Macros can also be written using any text editor. Includes alternate keyboard layouts.

Publisher: Format:

RoseSoft Disk

\$129.95 (US) Price: Availability: Ingram

Prolok, Hard Disk Prolok Software protection system. Uses only 3K to 7K RAM, locks application to fingerprinted disk. Available in bulk to software developers. Price shown is for OEM package of ten disks. Hard Disk Prolok diskettes \$106.95 for OEM

ten-pack. Publisher: Format:

Vault Com Disk

Price: Availability: \$93.50 Datalok, Dwenco

Resident

Allows up to 26 programs to co-reside in memory, switches instantly between them with cut-and-paste capability. Includes desktop utilities such as: note pad, phone dialer, card file, calculator, ASCII table, etc.

Publisher:

Information Software Inc.

Format: Disk \$89.95 (US) Price:

Sideways

Printer utility allows any text file to be printed lengthwise on fanfold rather than across. Perfect for getting hardcopy of wide spreadsheets or other documents. Offer multiple fonts, double-strike mode.

Publisher:

Funk Software Disk

Format: Price:

\$69.95 (US) Availability: Ingram

Smart Notes

Memory resident, allows pop-up notes to be 'attached' to any application data character string. Requires 90K RAM, works with popular applicatons such as Lotus, WordStar,

dBase, etc Publisher: Format:

Price:

Personics Disk

\$79.95 (US)

S O I I I I B





SONY

The least expensive disk to own is the one that always works."

The above quote came from one of our computer supply dealers. It really sums up what Sony is all about — performance and dependability. Business delays can be really expensive. So, check your supplier and specify Sony floppy disks — "the ones that always work."

SONY

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IBM I

Software

SmartKey II

Key-redefinition utility. Allows every key to have up to four meanings. Keys can be redefined while other software is running. Definitions can be saved to disk for re-use. Over 3000 characters can be assigned to a single key.

Publisher: Format:

Software Research Technologies

Disk

\$49.95 (US) Price: Availability: Ingram

SmartPath

Simple utility allows any DOS program to access overlays or application files across various subdirectories on hard drive

Publisher:

Software Research Technologies

Format: Price:

Disk \$29.95 (US)

Availability: Ingram

SmartPrint

Simple utility intercepts output to printer, recognizes special coding to enable use of fancy printer features not otherwise supported by applications software.

Publisher: Format:

Software Research Technologies

Price:

Disk

\$29.95 (US) Availability: Ingram

SuperKey

Keyboard macro system. Includes advanced features such as password protection. Uses ProKey compatible macro

Publisher:

Borland International

Format:

Disk \$69.95 (US)

Price: Availability:

Ingram

Travelling Sidekick

Allows Sidekick address and calendar files to be printed out. Includes travel binder for storing printed pages, with calculator, pen, etc.

Publisher:

Borland International

Format:

Disk

\$69.95 (US) Price:

Turbo Tutor

A friendly learning system designed to work with Turbo Pascal. Gives novices a history of Pascal, shows how to create simple programs. Advanced sections cover program structure, data types, control structures, etc.

Publisher: Format:

Borland International Disk

Price:

\$34.95 (US)

Availability:

Ingram

Video Calc

Four-function calculator program, works standalone from command line, exports files to Lotus 1-2-3 and Symphony. Does metric and hexadecimal conversions.

Publisher:

Getc Software

Format:

Disk

Price:

\$70.00

Zero Disk

Allows many popular copy-protected programs to be run from a hard disk without the use of a floppy 'key disk'. Uses 15K of memory under DOS 2.0 or higher. Updated monthly. Users can get revisions for \$18 US trade-in fee.

Publisher: Format:

Ouaid Software

Price:

\$75.00 (US)

Disk

PRINTING

Lettrix

Coresdent program that generates letter-quality print using dot-matrix printer's graphics mode. Intercepts output directly from your word processor, also accepts its own formatting commands for changing fonts, etc. Includes font editor.

Publisher:

Hammerlab Corp

Format: Price:

Disk \$98.50 (US)

Micro TEX

Enables writers and publishers to typeset technical documents, etc. Controls justification, hyphenation, kerning, footnotes, widows, running heads, diacritical marks, etc. Prints on dot-matrix, laser printers, or APS5 phototypeset-

Publisher:

Addison-Wesley Disk

Format: Price:

\$295.00 (US)

Polaris Forms

Designs forms, prints using Hewlett Packard LaserJet printers. Allows merging data from other programs, uses proportional fonts, justification, etc.

Polaris Software Disk

Format: Price:

\$149.00 (US)

Polaris Labelmaker

Prints all sorts of labels on Hewlett Packard LaserJet printers. Does envelopes, uses all special LaserJet fonts. Uses data from any word-processing program.

Publisher:

Polaris Software Disk

Format: Price:

\$124.00 (US)

Polaris PrintMerge

Prints typeset quality on Hewlett Packard LaserJet. Uses documents from WordStar, merges charts from Microsoft Chart and Chart-Master.

Publisher: Format:

Polaris Software Disk

\$124.00 (US)

Print Screen

What-you-see-is-what-you-get screen dump, replaces normal SHIFT-PrtSc dump. Supports all 256 extended ASCII characters, normal and high intensity, reverse video, etc. Produces shades of gray, 64 different sizes, vertically or

Publisher:

Domus Software

Format:

\$60.00

BUSINESS WORD PROCESSORS

Bank Street Writer

Uses simple menu-operated commands to give access to powerful editing functions such as block-move or searchand-replace. IBM version \$79.95 US, C64 or Atari 800 \$49.95.

Publisher:

Broderbund

Format: Price:

Disk \$69.95 (US)

Availability:

Beamscope, Ingram

Brit Scientex

What-you-see-is-what-you-get scientific word processor. Shows all greek and math symbols on screen. Includes all usual word-processing features, such as mail merge. Hercules graphics adapter recommended.

Publisher:

Scientific Communications Corp Disk

Format: \$795.00 (US) Price:

Brown Bag Word Processor

Repackaged version of PC-Write. Same features, different support base.

Publisher: Format:

Price:

Brown Bag Software

Disk

\$69.95 (US)

Cut & Paste Word Processor

Extremely user-friendly, easy-to-use word-processor designed for the complete novice. Functions such as searchand-replace, block move, block copy, etc are accessed through a menu-bar. Not available for Apple II +, only //e.

Publisher:

Electronic Arts

Disk

Format:

\$19.95 (US) Price: Availability: Beamscope, Ingram

DacEasy Word

Full-featured, inexpensive word processor. Includes mail merge, spellchecker, justification, windowing, etc. Operates mainly on function keys, with onscreen menus.

Publisher: Format:

Dac Software Inc Disk \$49.95 (US)

Price:

DisplayWrite 1 Extends more powerful DisplayWrite 3 by allowing compatible files to be edited even on single-drive systems. Includes search & replace, block functions, formatting,

footnotes, simple line graphics, etc. Publisher: Format:

IBM Disk \$129 99 IBM

Price: Availability:

DisplayWrite 3 Massive word processor for office use. Includes spelling checker, automatic hyphenation, online help, automatic footnotes and section numbering, cursor drawing func-

tions, international character sets, etc. Publisher: Format:

IBM Disk

Price: \$659.99 Availability: IBM

DisplayWrite Legal & Medical Support Accessory dictionaries for DisplayWrite spelling checker. Each contains the basic DisplayWrite dictionary of 100,000 words, plus specialized words and

space for adding new words. Legal Support \$229.00. Publisher:

Format: Price: Availability: **IBM** Disk \$249.99 IBM

Easy

Easy-to-use, menu-operated word processor. Uses Word-Star file conventions

Publisher: Format:

MicroPro Disk \$99.95 (US)

Price: Availability: Ingram

IBM .

Software

Electric Pencil PC

User-friendly word-processor. Features four levels of help plus online tutorial. Advanced version Electric Pencil Pro-Pak. \$499.95 US

Publisher: Format:

Disk

\$299.95 (US) Price: Availability: Ingram

HomeWord

Icon-based user-friendly word processor. Includes search & replace, formatting, spelling checker, etc. C-64 version \$49.95 US.

Publisher: Format:

Sierra On-Line Disk \$69.95 (US)

Price:

Availability: IBM, Ingram, Radio Shack

HomeWord Speller

Simple to use spellchecker for HomeWord word processor. Contains 45,000 words, accepts up to 5000 extra words

Publisher: Format:

Sierra On-Line

Availability:

Disk \$69.95 Radio Shack

IBM PDS Words Edition

Pro level word processor, integrates with other programs in IBM Personal Decision Series. Features search & replace, print enhancements such as boldface or underline, footers, headers, etc. Merges data from PDS Data, Reports Editions.

Publisher:

Format: Availability: Disk \$229.99

IBM Personal Editor

Geared toward programmers, but includes extensive editing and word-processing features such as tab and margin setting, word wrap, reformatting, copy, etc Publisher:

Format:

IBM Disk

Price: Availability: \$139.00 **IBM**

IBM Professional Editor

Designed for programmers and text developers. Allows horizontal scrolling, search & replace, text macro insertions, etc. Menu-driven.

Publisher: Format:

IBM Disk \$169.99

Price: Availability: **IBM**

IBM Writing Assistant

Easy to use, full-feature word processor, supports underlining, boldface, centering, page numbering, footers, color-coding, etc. Imports files from IBM Reporting Assistant, IBM Drawing Assistant. Supports TopView. Includes Word Proof.

Publisher: Format:

Price:

IBM Disk \$199.99

IBM

Availability:

K-Text

Text processing option for KnowledgeMan database system. Retrieve data, obtain statistics, perform computations, or issue any KnowledgeMan commands with results automatically inserted. Form letters, reports, etc, plus usual functions.

Publisher:

Micro Data Base Systems

Format: Disk Price: \$175.00 (US) Availability: Ingram

Leading Edge Word Processor

Function-key based word-processor with advanced features such as two-file simultaneous editing, continuous save to disk, etc. With spellchecker, \$195 US. With mail merge, \$140 US.

Publisher: Format:

Leading Edge \$100.00 (US)

Ingram

Price: Availability:

Integrates word-processing, address file and graphics capabilities. On-screen windows let you choose business and personal letter formats, typefaces, etc. Print labels, stationery with custom graphics. Supports most dot-matrix

Publisher:

Broderbund Disk

Format: \$79.95 (US) Price: Availability: Beamscope

Microsoft Word

High-power package includes usual features plus 50-page online reference guide, mouse support, undo command, up to 8 windows, display of italics, boldface, underlining (with graphics card), mailmerge, footnotes, etc. Mac version \$195 US

Publisher: Format:

Microsoft \$450.00 (US)

Availability: Ingram, Radio Shack

Multimate

Duplicates features of a dedicated word processor. Includes column calculations, boilerplate text up to a page in length, unlimited number of format lines, 70,000 word spellchecker dictionary, onscreen help, etc. Needs 256K RAM.

Publisher:

Multimate International

Format: Disk

Price: \$495.00 (US) Availability: Ingram, Radio Shack

Norton Editor, The

Created by noted PC guru Peter Norton, this editor combines features for both the writer and programmer. Uses all available RAM for maximum speed. Includes 'condensed' outlining mode, optional mouse support. Under 30K in size

Publisher: Format:

Peter Norton Disk

Price:

\$50.00 (US)

OfficeLink/Wang PC, /Multimate

Allows transfer of formatted OfficeWriter documents to Wang PC or MultiMate. OfficeLink/MultiMate \$115 US.

Publisher:

Office Solutions Disk

Format: Price:

\$195.00 (US)

Availability: Ingram

OfficeSpeller/Legal, /Medical

Extra dictionaries for OfficeWriter spellchecker, OfficeSpeller. Legal dictionary contains about 12,000 legal terms, Medical has about 26,000 medical words. Each includes standard dictionary as well. Price is per module. Office Solutions

Publisher: Format:

Disk \$95.00 (US) Price: Availability: Ingram

OfficeWriter

Features on-line help, menu operation, extensive use of function keys, support for scientific & foreign symbols, undo, on-screen underline and boldface. OfficeSpeller with 80,000-word dictionary included. LAN version

Publisher:

Office Solutions Disk

Format: Price:

\$445.00 (US)

Availability: Ingram

Palantir Speller

Spellchecker for use with Palantir Word Processor. Displays up to six lines of text, suggests correction, inserts new spelling. Interprets suffixes, compound words. Includes 58,795 word dictionary, expandable by up to 20,000 words.

Publisher: Format:

Palantir Software Disk

Price: Availability:

\$225.00

Palantir Word Processor

Features onscreen formatting, functions, horizontal scrolling up to 250 columns, proportional printing, file merging, form letters, boilerplate entry, math functions, conditional search. Price includes spelling checker.

Publisher: Format:

Palantir Software Disk

Price:

\$449.95

Availability: AMIES Inc, Ingram, V-Pac

PaperClip Elite

Enhanced version of the popular eight-bit word processor. Adds real-time spellchecking, idea processing, text/graphics integration, etc. Scheduled for release this fall. Batteries Included

Publisher: Format:

Price:

Disk

PC-Outline

Powerful outline processor offers both standard or coresident operation, allows up to nine outlines simultaneously in windows, includes high level word processing functions. Distributed as 'shareware', price is voluntary dona-

Publisher:

SoftWorks Development

Format: Disk Price: \$49.95 (US)

PC-Write

Cheap, fast, powerful word-processor. Features mail merge, indexing, headers/footers, keyboard macros, redifinable keyboard commands, split-screen editing, help menus, etc. Shareware: \$10 for complete software, \$75 for registration and docs

Publisher: Format:

Quicksoft Disk

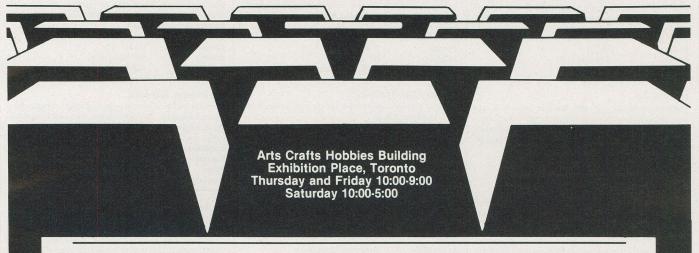
Price:

\$75.00 (US)

nouters in

Computers and Software for Educators Hands-on Show and Conference

October 23, 24 and 25, 1986.



"Hands-on" Involvement

Unlike most shows, which are appendages to lecture series, this Conference will bring educators together with software, hardware and peripheral product suppliers for the first time on a large scale, permitting teachers to test their products in an unpressured, untimed environment, and thereby personally determine what's good, what isn't and where it fits

125+ Machine **Computer Lab**

In the computer lab teachers will be able to test software at their leisure on the types of machines with which they are currently familiar, as well as on the newer machines.

Software Passport

Conference delegates will receive a Software Passport allowing them to borrow software from among the estimated 2,000 + packages available for individual testing in the computer laboratory.

Latest Hardware

Those teaching computer studies will be able to see and test educational electronics packages designed with secondary school courses in mind. To help teachers understand the full strength of the software packages available, the latest hardware and where it all fits into the curriculum, there will be demonstrations to individuals or small groups of teachers at their request.

Full Program of Educational Computing Seminars To be opened by the Ontario Minister of Education, The Honourable Sean Conway, the Conference Seminars will only include subject areas of practical use to teachers in the classroom. A partial list of titles includes

Copy Not, Want Not . Work Related Software, . The Educational Context Copy Not, Want Not • Work Related Software, • The Educational Context for Computers in Education • Avoiding the Proprietary Software Trap • The Need for Large Courseware on CD ROM • Using Logo within the Existing Mathematics Curriculum • Towards Quality Courseware Development • The Classroom of the Future • Designing Exemplary Software for the Georgraphy Curriculum • Selecting Appropriate Software - The Ins and Outs • ECONET • The UNIX and DOS Connection - Tapping Larger Software Sources for Classroom Use • Use of the Word Processor in Generating Examinations • Designing Computer Lessonware • Courseware and Authoring • Special Education Software • Using the York Educational Software Database • Using the Amiga in the Music Classroom • Using the Amiga in the Classroom.

Registration Information

Conference delegates who pay the \$25 registration fee by October 15, 1986 will be eligible for the special drawing for an ATARI 1040ST colour system to take place October 24. Your cancelled cheque will confirm your registration and eligibility for the draw. An official receipt will be attached to your conference passport, to be picked up on arrival at the Show. Visitors who pre-register but who are unable to attend can receive a full refund if written notice is provided on or before October 21, 1986 To register, complete the registration and included in the Southwester of October 21, 1986. To register, complete the registration card included in the September or October issues of Computers in Education, or send a cheque directly to Moorshead Publications, or telephone (416) 445-5600 and charge it against your Visa, Master Card or American Express Card.

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IBM I

Software

Perfect Writer

Offers deletion by character, word, line, paragraph, screenful, block, search/replace, etc. Edit up to 7 files at once, display two at a time in windows. Scroll one window while editing the other, move blocks, etc. Apple II version \$139 US.

Publisher: Format: Price: Availability: Thorn EMI Disk \$199 00 (US) Ingram

PFS: Proof

Spellchecker for use with PFS:Write or any ASCII text files. Displays questionable spellings, suggests correction, lets user leave original spelling if desired. Includes online help, 100,000 word expandable dictionary. For Apple II, \$75 US.

Publisher:

Software Publishing

Format: Price: Availability: Disk \$95.00 (US) Ingram

PFS: Write

User-friendly program offers standard features such as block moves, search-and-replace, etc. Help screens online, allows boilerplate paragraphs, merging of charts from PFS:Graph, displays boldface, underlining.

Publisher:

Software Publishing

Format: Price:

Disk \$140.00 (US)

Ingram, Radio Shack Availability:

Pop-Up Partner

Full-featured outline processor, features multiple windows, pull-down menu and command-driven operation, word-processing functions, help, macros, numbering, etc. Works coresident or from DOS. Includes many template outlines. Uses 99K RAM.

Publisher: Format:

Popular Programs

Disk Price: \$69.95 (US)

Scientific/technical word processing system, allows definition of up to six alternate keyboard layouts using IBM extended ASCII characters, numerous supplied character sets, or user-defined characters. Uses graphics mode to show onscreen.

Publisher:

Image Processing Systems

Format:

Disk (2) \$425.00 (US)

Random House Reference Set

Coresident spellchecker, dictionary and thesaurus. Does single-word, screen-at-a-time or complete document checking. Includes 83,000 and 50,000 word dictionaries, plus 50,000 word thesaurus.

Publisher:

Reference Software

Format: Price: Availability: Disk (2) \$89.00 (US) Ingram

Memory resident version of popular ThinkTank outline processor. Supports Mouse Systems PC-Mouse, and uses extra Lotus/Intel EMS RAM to occupy only 3K in DOS space. WOrks with ProKey, SuperKey, Sidekick and most other resident utilities

Publisher:

Living Videotext

Format: Price:

Disk \$99.95 (US)

Samna +

All the features of Samna Word III word-processor, plus integrated spreadsheet. Allows horizontal, vertical splitscreen, linked spreadsheets within a single document, insertion of cell values within text, plus database func-

Publisher: Format:

Samna Disk (2)

Price: \$895.00 Aldershot Alternatives, Ingram

Availability:

Samna Legal Dictionary

Set of 22,000 specialized words for use with Samna Word spell checking function. Samna

Publisher: Format: Price:

Disk (2) \$285.00

Availability: Aldershot Alternatives

Samna Medical Dictionary

Set of 25,000 specialized words for use with Samna Word spell checking function.

Publisher:

Samna Format: Disk (2) \$355.00 Price:

Availability: Aldershot Alternatives

Samna Word I

The basic word processing system of the Samna line. Includes many features also found in more advanced Samna Word III and Samna + packages.

Publisher: Format:

Disk (2) Price: \$395.00

Availability: Aldershot Alternatives, Ingram

Samna

Samna Word III

Massive, full featured word processor. Many functions such as spell checking, online help, split screens, form letters, line drawing, document 'zoom' preview, math functions, etc. What-you-see-is-what-you-get type. Also available in French.

Publisher:

Samna Format: Disk (2) \$725.00 Price: Availability:

Aldershot Alternatives, Ingram

Professional text editor, includes data encryption, spelling checker with 50,000 word dictionary. Simplifies program development by jumping easily to line numbers, autoindenting, etc. Drafts documents up to 40,000 words.

Publisher: Format:

Graham Software

Price:

\$149.00

Spell Concept

High-performance spelling checker, includes 20,000word standard dictionary, and allows creation of secondary customized dictionaries. Unattended batch mode. Runs independently or directly from within Word Concept word-processor. Concept Omega

Publisher: Format:

Disk \$495.00 (US)

Price:

Spellbinder

Full-feature word processor. Includes all usual typing, editing, block functions. Offers various user-defined printing features, multi-column printing, etc. Also includes data-management functions such as template input, sort, search, math.

Publisher: Format:

Lexisoft Disk \$495.00 (US)

Price: Availability: Ingram

Spellbinder Scientific

Scientific/technical word processor, displays complex formulas onscreen. Includes macro capability, special character sets for math, chemical equations, character set

editor, etc.

Publisher: Lexisoft Format: Disk

\$790.00 (US) Price: Availability: Ingram

Strike

Memory resident spelling checker. Checks as you type with audible error warning, shows window of suggested corrections. Also checks full screen, paragraph. Includes 49,000 word RAM-resident expandable dictionary. Uses 105K of RAM.

Publisher:

S&K Technology

Format: Disk \$29.95 (US) Price:

Full-featured word-processor with powerful scientific/ technical features. Includes footnoting, pop-up menus, macros, etc, plus graphic display for special characters. Allows custom keyboard definition using supplied or usercreated fonts.

Publisher:

TCI Software Research Inc

Format:

Disk (2) \$595 00 (US) Price:

TechWriter

Full-featured word-processor modelled on MultiMate but with extended scientific/technical dipslay and formatting capabilities. Allows display and printing of special character sets. Supports laser printers.

\$595.00 (US)

Publisher: Format:

Price:

CMI Software Disk (2)

ThinkTank

Idea processor, makes it easy to take and organize notes. Organizes ideas and concepts into outline format, expands any entry to further levels of detail. Works as a textprocessing environment. Apple version needs 128K RAM. Publisher:

Format:

Living Videotext Disk

\$195.00 (US) Price:

Turbo Lightning

Coresident spellchecker and thesaurus, offer online instant checking while you type or screen by screen checking. Pop-up window displays synonyms. Programmer's kit based on Lighning reference 'engine' to be available soon. **Publisher:** Borland International

Hard disk

Format:

Price:

\$99.95 (US) Availability: Ingram

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Your Sanyo dealer makes this pledge; to give you the most personal computer for your money because

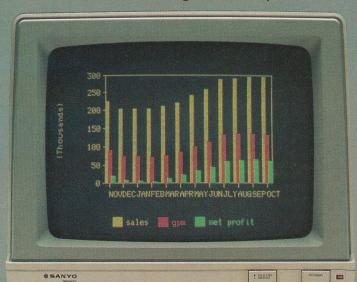
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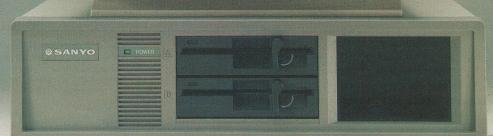
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SANYO BUSINESS SYSTEMS

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IBM.

Software

Volkswriter 3

Powerful, user-friendly word-processor. Everything runs on function keys and prompts. Includes disk-based tutorial demo files, spellchecker, mail merge. Supports proportional printing, multiple page layouts stored in files, math operations.

Publisher:

Lifetree Disk

Format: \$295.00 (US) Price:

Volkswriter Scientific

Extension of the popular Volkswriter word-processing system. Uses full bit-mapped display to permit user to work with scientific or other characters. Can create custom fonts. Includes printer drivers to properly reproduce screen image.

Publisher: Format:

Lifetree Disk (2)

Price: \$495.00 (US)

Webster's New World Spelling Checker

Straightforward, easy-to-use spelling checker. Works with most text file formats. Allows preview of misspelled words, shows words in context, allows one-key replacement, addition to auxiliary dictionary, etc.

Publisher:

Simon & Schuster

Disk Format: \$59.95 (US) Price: Availability: Ingram

Webster's New World Thesaurus

Comprehensive on-line thesaurus, shows words in pop-up

Publisher:

Simon & Schuster Disk

Format: Price:

\$69.95 (US)

Availability: Ingram

WindoWord

Full-featured word processor based on windowing interface with pull-down menus and keystroke commands. Edit up to 4 documents at a time. Online help, advanced formatting, etc. Copy protected.

Publisher: Format:

Price:

Arrays Disk (2) \$149.95 (US)

Word Concept

Multiuser, menu-driven word-processing system for use with Thoroughbred Business BASIC applications and systems. Includes on-line help, three-level password security Integrates with Spell Concept, Mail Concept, Model Concent

Publisher: Format:

Concept Omega Disk

Price:

\$695.00 (US)

Word Perfect 4.1

Advanced word-processing system, features multi-column format displayed onscreen, spellchecker, etc. **Publisher:**Satellite Software

Format:

Hard disk

Price:

\$495.00 (US) Ingram

Availability:

WordPerfect Includes advanced features such as footnotes, text columns, math functions, mail merge, spell-checker with 30,000-word user-expandable dictionary. Macintosh and Amiga versions to be available by end of 1986.

Publisher: Format:

SSI Software Disk

Price:

\$650.00

WordProof

Spellchecker, checks entire document or single word, provides synonyms. Expandable dictionary, compatible with DisplayWrite, IBM Writing Assistant and other word processing software.

Publisher:

Format: Price:

IBM Disk \$79.99

Availability: **IBM**

WordStar 2000

User friendly sixteen bit update of the popular WordStar system. Features user definable function keys, simple menus, onscreen help, undo command, interactive tutorial, integrated spellchecker, mail merge, math functions, windows, etc

Publisher: Format:

MicroPro Disk

Price:

\$495.00 (US) Ingram

Availability:

WordStar 2000 Plus

Professional, sixteen bit version of popular WordStar system. Includes integrated database, mail merging, telecommunications, indexing, math functions, spellchecking, macro keys, multi-file editing with windows,

Publisher: Format:

MicroPro Disk (2) \$595.00 (US)

Price: Availability: Ingram

WordStar 3.31

Perennial favorite word processing program. Uses multiple pull-down menus with selectable level of Help. Includes usual block functions, search/replace, etc. Formats on screen. Integrates with other MicroPro products. French version also

Publisher: Format:

MicroPro Disk

Price: Availability:

\$350.00 (US) Ingram

WordStar Professional

Complete word processing package, includes WordStar, CorrectStar/SpellStar, MailMerge, and StarIndex. Features text editing, form letter creation, indexing, etc.

Publisher: Format:

MicroPro Disk (2)

Price:

\$495.00 (US)

Availability:

Ingram, Radio Shack

Features complete foreign language support, multiple overlapping windows, line drawing, page creation that combines graphics with text, multiple font support, mail merge, label printing, spooler, etc. Also available in French

Publisher:

Natural Language Disk

Format: \$110.00 Price:

Availability: Klondike Software

XENIX Text Formatting System Runs under XENIX on IBM PC. Suitable for technical and

professional documents. Creates customized documents by allowing user to specify font type, point size, etc. Macro processors for typesetting. Checks spelling, readablility, word stats.

Publisher: Format:

IBM Disk \$209.99

Price: Availability:

IBM

XyWrite III

Unique top-end, command-driven word processing system. Uses all available RAM for high speed editing. Allows keyboard redefinition, macro programming and command level programming. Features outline numbering, table of contents, etc.

Publisher: Format:

XvOuest Inc Disk

Price:

\$395.00 (US)

DATA MANAGERS

10-Base

Relational database system implementing subset of IBM mainframe SQL query language. Unlimited fields, up to 32,000 characters per record. Menu operation, online help. DIF or ASCII output. Works with 10-Net LAN. Multiuser version \$895 US.

Publisher: Format:

Price:

Fox Research Hard disk \$495.00 (US)

Access Manager

BTREE type structured file retrieval system for use with any Digital Research programming language. Interfaces multiple languages to common data files, supports both single and multi user environments.

Publisher:

Digital Research

Format: Disk

\$400.00 (US) Price:

Availability: Ingram

Advanced DB Master

Stores up to 16 megabytes of information. Searches, reorganizes, calculates, prints out customized reports. Includes table lookup, text merge, field validation, browse, keystroke macros, etc. Up to 44 floppy disks per

Publisher: Format:

Stoneware Disk \$595.00 (US)

Price: Availability:

Ingram

Andsor Collection, The

Provides a set of high-level functions in a windowing environment. User combines functions to create solutions for databasing, calculating, text processing, statistics, reports, mail-merge, etc. Works with as little as 128K RAM,

l floppy. Publisher:

Andsor Research

Format: Disk Price: \$135.00

Arctic File II

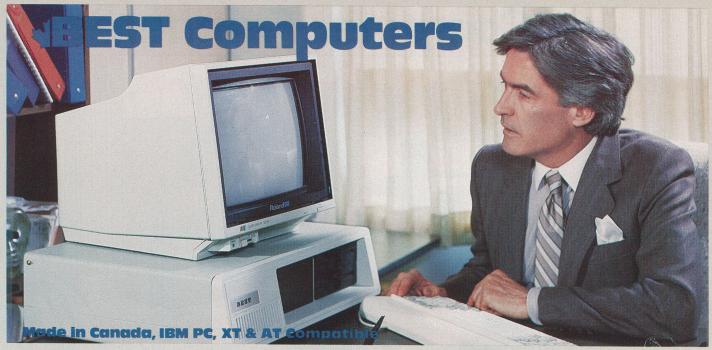
Powerful menu driven database manager. Features 4-parameter searching, vertical or horizontal report printing, sort on 2 parameters at once, global change function, etc. Up to 32,000 records per database. Online help.

Publisher:

Arctic Data Disk (2)

Format: Price:

\$249.00



Monitor not included. IBM, IBM PC, IBM XT and IBM AT are registered trademarks of IBM Canada Ltd.

Features common to BEST MK II, MK III & MK IV

- Superb IBM PC & XT Compatibility
- Canadian Made
- 256K RAM Standard minimum (uses 41256K RAM chips)
- Expandable on board to 640K RAM
- Parallel Port (for printer)
- Serial Port (for communications)
- Real Time Clock/Calendar (with Battery Backup) Presocketed for optional co-processor such as 8087 Math Processor
- IBM Compatible Keyboard

- Reset Switch
- Phoenix BIOS as used in many major brand IBM compatible systems
- 150 Watt Power Supply which will handle a Hard Drive without upgrade.
- 7 Slots
- Flip top case
- 2 Slimline DS,DD 5¼", 360K Disk Drives
 Colour Video (RGB & Composite) Board or Hi-Res Monochrome Card (customer choice)
- Disk Controller Board

Warranty

We have such confidence in the time tested reliability of the BEST that we offer a ten (10) month warranty which is way above the industry standard. On-site service plan available at extra cost Nation-wide through 3M of Canada Ltd.

BEST MK II. Regular \$1695. This Month:

Two 350K DS,DD disk drives, Serial and Parallel Ports, Real Time Clock, Phoenix BIOS, uses 8088 processor — full specifications given above.



The FAST BEST MK III

As BEST MK II plus speed selectable: 4.77 and 8MHz (most software will run on the higher speed), uses 8088-2 processor.



SUPER-FAST BEST MK IV

As BEST MK III plus TRUE 16-Bit machine, 8086-2 processor, IBM compatible 8-Bit I/O channel bus, even faster than MK III due to 16-Bit architecture. With 256K standard.

TEN MONTH WARRANTY

TEN MONTH WARRANTY

TEN MONTH WARRANTY

Other Configurations:

With 640K RAM With 10 Meg Hard Drive/1 Floppy/256K With 10 Meg Hard Drive/1 Floppy/640K \$2495 \$2595 With 20 Meg Hard Drive/1 Floppy/256K With 20 Meg Hard Drive/1 Floppy/640K \$2795 \$2895

Other Configurations: With 640K RAM..... \$1995 With 10 Meg Hard Drive/1 Floppy/256K With 10 Meg Hard Drive/1 Floppy/640K With 20 Meg Hard Drive/1 Floppy/256K With 20 Meg Hard Drive/1 Floppy/640K \$2795 2895 \$2895 \$2995 With 80 Meg Hard Drive/1 Floppy/640K \$3995

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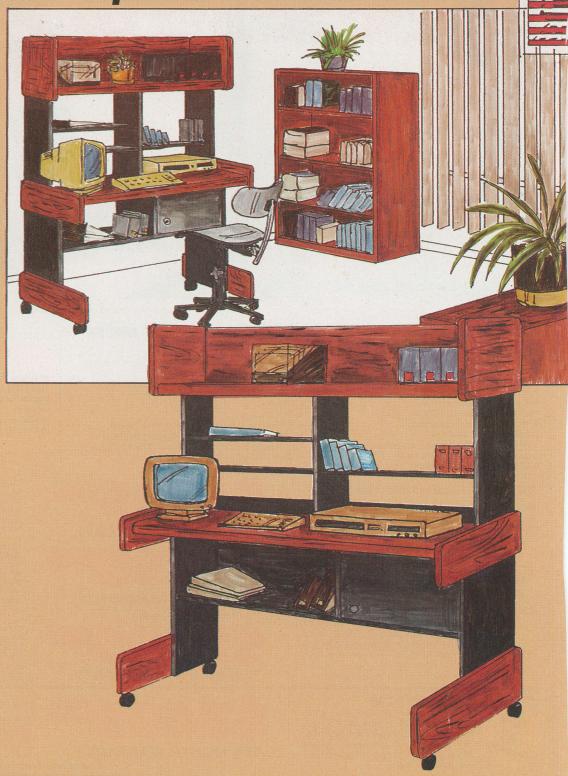
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IBM

Software

CataList

Menu-driven mini databse, list processor, file manager and mailing list handler. Prepares fully-compatible interface diskettes for any of 13 popular word processors, merges with customized form letters. Many database functions.

Publisher:

Format: Disk (2) Price: \$395.00

Availability: Aldershot Alternatives

Clarion

Complete relational database environment, includes screen design, report generator, custom context-sensitive help screens, program editor, compiler, etc. Copy-protected, senses module plugged into parallel port.

Publisher: Format:

Barrington Systems Hard disk \$295.00 (US)

Price:

ClearCut

Form-based nonrelational data retrieval system, with easy menu operation and on-disk tutorial. Allows up to 65,000 records, 512 fields, and up to six screens and 132 lines per record. Searches on alpha or numeric fields.

Publisher: Format:

Menlosoft Disk

\$49.00 (US) Price:

Clipper

Sophisticated compiler system for dBase. Makes dBase programs execute faster, adds extra commands, arrays, menus, context-sensitive help, more fields and variables, etc. Allows C-language modules to be linked in. Multiuser support.

Publisher: Format:

Availability:

Nantucket Hard disk \$695.00 (US) Ingram

Clout

Price:

Natural-language extension for R:Base 4000 database system, permitting query using commands that can differ from ideal syntax. Interactively interprets command, adds to its dictionary. Also compatible with dBase II, Lotus 1-2-3 PFS:File

Publisher:

Microrim Format: Disk \$249.00 (US) Price: Availability: Ingram

ConceptR

Report generation system for Thoroughbred Business BASIC environment. Features full-screen free-form report painter, horizontal scrolling for wide formats, automatic printer formatting, multiple file access, math functions,

Publisher: Format:

Price:

Concept Omega Disk \$795.00 (US)

Condor 3

Relational data-base management system, using both menu and English commands. "Easy to use" yet "Excellent for applications development" ... Integrated graphics and communications.

Publisher: Format:

Price:

Condor Disk

Availability:

\$650.00 (US) Ingram

Condor Jr

A simple menu-based filing and reporting system. Runs with one drive and 128K minimum RAM, either PC DOS or MS DOS 2.0

Publisher: Format:

Condor Disk \$195.00 (US)

Price: Availability:

Ingram

Consultant, The (Delphi's Oracle)

Easy to use database personal database. Features fast memory-resident operation, macros, curstom reports, fullscreen editing, arithmetic calculator, etc. Max 99 fields per record, 65,588 records per database. IBM version \$99.95

Publisher:

Batteries Included

Format: Price:

Disk \$59 95

Availability:

Beamscope, Ingram

Cornerstone

Menu-based with optional command mode, allows adding fields, moving data between files, automatic validity checking of entries. Unlimited number of records. Reads data from dBase or PFS:File, interfaces with 1-2-3, Word-Star Needs 256K

Publisher: Format:

Infocom Disk \$99.95 (US) Price. Availability: Ingram, Radio Shack

Data Base Manager II

Menu-driven data-manager. Inludes phonetic word search, built-in form letter, data calculations. Unlimited records, 40 fields per record. Allows reconfiguration of fields. Transfers data to most spreadsheet or word-processing programs.

Publisher:

Alpha Software Corp Disk (2)

Format: Price: Availability:

\$295.00 (US) Ingram

DataEase

Includes complete relational capabilities, full screen editor, command or menu operation, forms definition, queryby-example, procedural language, quick report facility, etc. Imports and exports DIF, ASCII, dBase III, WKS, Lotus etc.

Software Solutions Inc Publisher:

Format: Price: Availability:

Disk \$900.00 ComputerLinks

DataFlex

Powerful database management system, combines programming language, relational data management, screen forms processing plus powerful utilities such as an applications generator. Multi-user version \$1250 US.

Publisher: Format:

Data Accesss Corp Disk

\$995.00 (US) Price:

Task-oriented database manager with relational capabilities. Includes hierarchical scrolling menus, multiuser capability, unlimited file size, macro facility, query system, disk cache, DOS command interface, calculator, editor, etc.

Publisher:

Benedat Systems Group

Format: Hard disk \$149.00 (US) Price:

dBase II

Extremely popular data-management system, comprising a programming language and powerful data-manipulation commands. Allows creation of highly customized applications for data-entry, retrieval, reports generation, etc.

Publisher: Format:

Ashton-Tate Disk

Price: \$665.00

Availability: Ingram, Radio Shack

dBase III

Sixteen-bit update of popular data-manager. Features faster sorting, indexing, enhanced programming, on-line help. Over a billion records, hardware permitting, with up to 128 fields per record. Needs 256K RAM, two disk drives

Publisher:

Ashton-Tate Format: Disk (2) Price: \$895.00

Availability:

Ingram, Radio Shack

dBase III Plus

Latest upgrade of the dBase package. Adds faster indexing, pulldown menu operations, Advanced Query System, Applications Generator, Screen Painter, encryption, assembly language interface, etc

Publisher: Format: Price:

Ashton Tate Hard disk \$695.00 (US) Availability: Ingram

DUtil. DUtil III

A programming aid for dBase II and dBase III. Simplifies debugging, allows programs to run faster, creates batch files for making backups, etc. Gives tree listing of user's command modules and data files.

Publisher: Format:

Fox & Geller Disk

Price: Availability: \$99.00 (US) Ingram

dWindow

Tiny 9K utility program attaches itself to dBase and adds new windowing commands. Speeds development of menu-driven systems, simplifies all screen access functions. Available for dBase II or III.

Publisher: Format:

Liberty Bell Software Disk

Price:

\$99.00 (US)

FastStart dBase II

A painless way to learn dBase II. Provides an onscreen help window with complete instructions. Lets you actually use your software while learning how to use it. McGraw-Hill Training Systems

Publisher: Format:

\$64.95 (US) Price:

FastStart Reflex

Puts a training window on your Reflex screen, providing on-screen instructions to guide you through program operations. Gives three levels of training: beginner, advanced and expert. Allows you to actually use Reflex while learning it.

Publisher: Format:

McGraw-Hill Training Systems

Disk \$69.95 (US)

Disk

IBM I

Software

Friday!

Menu-driven friendly version of popular dBase II. Usual search, report facilities. Compatible with dBase II and DOS text files.

Publisher:

Ashton-Tate Disk

Format: Price:

\$399.00

Availability:

Ingram, Radio Shack

Genifer

Application generator for dBase III. Provides data dictionary, full-page custom reports, up to 9 nested levels of files, tree-structured menus, etc. Code is standardized, customizable, automatically documented.

Publisher:

Bytel Disk

Format: Price:

\$395.00 (US)

Availability:

Ingram

HomeWord Filer

Simple icon oriented data manager. Interfaces with Home-Word word processor, files letters, documents.

Publisher:

Sierra On-Line

Format:

Disk \$69.95 (US)

Price: Availability:

Ingram

IBM Assistant Accounting Solutions

Set of predesigned forms for converting IBM Filing Assistant data into IBM Reporting Assistant reports. Helps manage personnel files, payroll, inventory, sales and receivables.

Publisher: Format: Price: Availability:

IBM Disk \$109.99 IBM

IBM Assistant Executive Solutions

Set of predesigned forms for converting IBM Filing Assistant data into IBM Reporting Assistant reports. Helps keep track of appointments, expenses, meetings, correspondence, investments

Publisher: Format: Availability:

Price:

IBM Disk \$84 99 **IBM**

IBM Assistant Home Solutions

Set of predesigned forms for converting IBM Filing Assistant files into IBM Reporting Assistant reports. Helps manage household finances, balance checkbook, keep a record of valuables.

Publisher: Format:

Availability:

Price:

IBM Disk \$84.99 IBM

IBM Filing Assistant

Electronic file cabinet, allows user to design and store forms up to 32 pages long with up to 100 fields per page. Allows retrieval, form redesign, printing, merging, copying, etc. Merges with other Assistant Series programs.

Publisher: Format:

Disk \$199.99

Price: Availability:

IBM

IBM PDS Data Edition

Database manager and report writer, foundation and prerequisite for other programs in the IBM Personal Decision Series. Updates indexes automatically, includes math and stats functions, produces tailored reports, supports communications

IBM

Disk

IBM

\$349.99

Publisher: Format:

Price: Availability:

IBM PDS Reports + Edition

An advanced report writer for IBM Personal Decision Series Data Edition or other database systems. Includes scratchpad display to allow onscreen report design. Define titles, specify fields, add print effects, create data entry forms, etc.

Publisher:

Format: Price: Availability: IBM Disk \$229.99 IBM

IBM Reporting Assistant

Works in conjunction with IBM Filing Assistant. Allows up to 20 columns, centering, underlining, headings, titles, page numbering, justification, sorting, selective retrieval, etc. Reports can be read into IBM Writing Assistant documents

Publisher: Format: Price:

Disk \$179.99 IBM

Availability:

Program development tool, allows design of custom menus, data entry screens, reports, field-specific online help. Provides multiuser support, audit trails for each user, password protection.

Publisher:

Concept Omega

\$695.00 (US) Price:

K-Mouse

Format:

Accessory module for KnowledgeMan/2 system, allows use of mouse.

Publisher:

Micro Data Base Systems Hard disk

Format:

Price: n/a Availability: Ingram

K-Paint

Menu-driven forms painting utility for KnowledgeMan database system. Designate opposite corners of a block, fill color. Shrink, expand, or move blocks. Add words, numbers, symbols, etc. Forms can be used for input/output with KnowledgeMan.

Publisher: Format:

Micro Data Base Systems Disk

Price: n/a Availability: Ingram

K-Report

Sophisticated report generator, integrates into KnowledgeMan/2 database system.

Publisher: Format:

Micro Data Base Systems Hard disk

Price: Availability: \$225.00 (US) Ingram

KnowledgeMan/2

Comprehensive data-management package, incorporating spreadsheet, statistical functions, forms management, structured programming language, online help. Color graphics, text processing, and mouse support available as options.

Publisher:

Micro Data Base Systems

Disk Format: \$595.00 (US)

Price: Availability:

Mail Concept

Easy-to-use system for producing form letters, reports and other specialized documents. Accesses data from Thoroughbred Business BASIC, uses BASIC conditional logic, syntax. Includes online help. Interfaces to Word Concept

word-processor. Publisher:

Concept Omega Disk

Format: Price:

\$595.00 (US)

Ingram

Manager, The

Comprehensive data management system. BMB Compuscience

Publisher: Format:

Disk

Price:

\$169.95 (US)

Mastertype Filer

A list management program for the home. Catalogs, processes, files, manages household records.

Publisher: Scarborough Systems

Format: Price:

\$39.95 (US)

Availability: Ingram

Nutshell Information Manager

Menu driven, with online help, tutorial. Also works in command mode. Allows variable length records, fields, unlimited number of each. Searches, sorts, etc.

Publisher: Format: Price: Availability: Leading Edge Disk (2) \$150.00 (US)

Ingram

Palantir Filer Up to 50 fields per record, 80 characters per field. Screen layouts are created by Palantir Word Processor, bridge feature allows mail merge. Various find, change, sort functions. Structure can be changed without affecting data

Publisher: Format:

Palantir Software Disk \$225.00

Price:

Availability: Ingram, V-Pac

Paradox

HIgh-power database manager, uses tabular data entry, allows browsing of multiple files, fast relational opera-

Publisher: Format: Price:

Ansa Software Disk \$695.00 (US)

PC-File/R

Simple database with many powerful features. Includes relational capabilities, built-in word processing with mail merge, pop-up help screens, etc. Allows import/export of files for Lotus 1-2-3, etc

Publisher: Format:

ButtonWare Inc

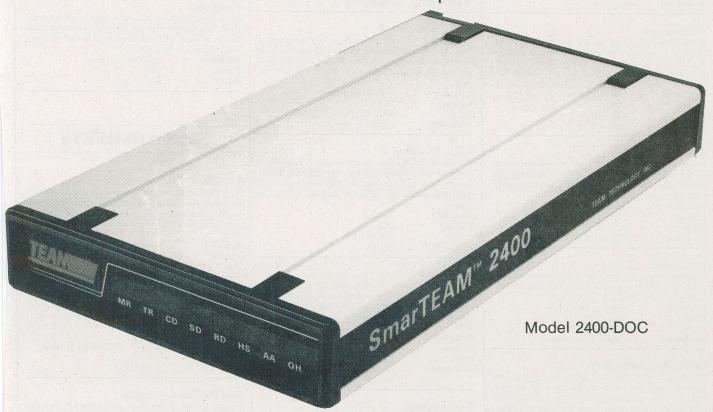
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IBM:

Software

Full-feature records manager, includes pop-up menus, 16 predefined data entry forms. Can share data with either Perfect Writer or Perfect Calc, for production of form letters, labels, etc. Apple II version \$139 US.

Publisher: Format: Price:

Thorn EMI

\$199.00 (US) Availability: Ingram

Personal Pearl: Information System V2.0

Relational database and information-management system. Designs forms, reports, enter data, sort, etc. Interfaces to word-processors and spreadsheets. Includes appointment calendar, address file & mailing list, cash disbursment journal.

Publisher: Format:

Availability:

Price:

Pearlsoft Disk \$295.00 (US) Ingram

PFS Solutions

Ready made field tested applications for PFS:File and PFS:Report, containing complete form designs, from 3 to 7 predefined reports. Selection includes Mail List, Inventory, Invoices, Ledger, Home Budget, School Recordkeeper, Stock\$, etc.

Publisher:

Software Publishing

Format: Price: Availability:

Disk \$66.70 (US) Ingram

PFS: File

Simple to use card file type database. Offers free-form editing of input screen, variable length fields, multi-page records, plus standard searching, sorting, etc. IBM version \$140 US. Apple II version \$49.95 US

Publisher: Format:

Software Publishing Disk

\$125.00 (US) Price: Availability: Ingram, Radio Shack

PFS: Report

Report generating option for use with PFS:File database. Produces columnar reports, includes totals, subtotals, etc. C-64 version \$69.95 US.

Publisher: Format:

Software Publishing Disk

Price: Availability:

\$125.00 (US) Ingram, Radio Shack

Quickcode, Quickcode III

Program generator for dBase II and III. User 'paints' entry form on screen, sets parameters for data entry, retrieval, deletion, printing, transfer, etc. Creates dBase source code. Quickcode III allows creation of oversize records, files

Publisher: Format:

Fox & Geller Disk \$295.00 (US)

Price: Availability:

Ingram

Quickindex II, Quickindex III

Fast indexing utility, offers time savings over built-in dBase functions. Quickindex II for dBase II, \$99 US.

Publisher: Format:

Fox & Geller Disk (2) \$149.00 (US)

Price: Availability:

Ingram

Jsers with no programming ability can create complex dBase reports, combining up to 5 files in one report, sort, select data by criteria, perform calculations, etc. Simply draw desired report on screen. Needs 256K.

Publisher: Format: Price:

Fox & Geller Disk \$295.00 (US)

Availability: Ingram

R:Base 5000

Includes optional command prompts, forms drawing on screen, report generation, etc. Define rules for all fields, get immediate feedback on validity of input. Up to 2.5 billion records, 1530 characters each. Supports IBM PC Network, DOS 3.1

Microrim

Publisher: Format:

Hard disk Price: \$700.00 (US) Availability: Ingram

Reflex 'The Analyst'

Sophisticated non-relational database. Works in graphics mode, uses pull-down menus, windows. Displays multiple views simultaneously: entry form, tabular, cross-reference and graphic. Imports and exports dBase, PFS or Lotus data

Publisher:

Borland International

Format: Price: Availability: Disk (2) \$124.95 (US) Ingram

Reflex Workshop

Contains Reflex database models as well as step-by-step instructions for building or customizing your own. Covers use of simple or nested multiple-condition queries, file translation, mail merge, labels, etc. Requires Reflex: The Analyst

Publisher: Format: Price:

Borland Disk \$69.95 (US) Ingram

Availability:

Revelation

Top end database applications environment for heavy-duty users. Stores data in variable-length, multi-valued fields, allows quick addition of new fields. Supports 8087 math co-processor. Network version for up to 4 workstations, \$700.

Publisher: Format:

Cosmos Disk (2)

Price: Availability: \$1295.00

Leading Edge Management

Services

Tornado Notes

Unique RAM-resident, freeform data tool. Uses pop-up windows to allow random information to be entered and accessed. Search on word, phrase, etc. Allows importing/ exporting of files. Built-in editor. Uses 50K plus data. Not copy-protected.

Publisher: Format: Price:

Micro Logic \$49.95 (US)

Unique database generator environment, allows user to create programmed standalone applications. Allows up to 18 open files at one time, 400 fields per file, up to 2000 characters per field. Online help. Free distribution of runtime

Publisher: Format:

Price:

DynaBase Disk \$69.95

VisiFile

Simple, convenient, fast cardfile system. Allows freeform data entry, retrieval by either keywords or brute force search. Also includes reminder calendar feature, printer support, etc. IBM version \$149 US.

Format: Price:

VisiCorp Disk \$129.00 (US)

Ingram

Availability: VP-Info

High-speed database compatible with dBase II, III and III Plus data files. Features built-in compiler, network support with file and record locking, etc. Supports most commands and functions of dBase, adds 4 new relational commands. Paperback Software

Publisher: Format:

Disk Price: \$99.95 (US)

Zoomracks

Relational cardfile system based on unique card rack metaphor. View multiple files simultaneously, create command macros to move data and define relationships. Includes usual search, sort options.

Publisher:

QuickView Systems

Format: Price:

Disk \$79.95 (US)

SPREADSHEETS

Integrated spreadsheet and word-processor, with windowing. Reads Lotus 1-2-3 data files, emulates 1-2-3 user interface. Allows opening of large number of document and spreadsheet windows, with cut-and-paste between them

Publisher: Format:

Price:

Interface Technologies Corp Disk \$99.95 (US)

FastStart Lotus 1-2-3

Tutorial learning system for Lotus 1-2-3 spreadsheet. Opens a special help window onto actual Lotus worksheet provides onscreen instruction. Learn while actually using Lotus

Publisher: Format:

McGraw-Hill Training Systems Disk

Price: \$79.95 (US)

IBM PDS Plans + Edition

Features sorting, programming, arithmetic, logic and control functions, plus specialized engineering and statistical operations. Retrieves files from other spreadsheet software. Multiple windows on sheet, consolidate sheets, graphics, etc.

Publisher: Format:

Availability:

Price:

IBM Disk \$504.99 **IBM**

IBM Planning Assistant

Allows up to 20 constants to be defined in formulas, includes financial functions such as Present Value. Reads and writes DIF or SYLK files, integrates with IBM Filing Assistant, IBM Graphing Assistant, IBM Writing Assistant

Publisher: Format:

IBM Disk \$199 99

Price: Availability:

IRM

IBM.

Software

IBM Planning Assistant Solutions

Set of predesigned spreadsheet models for IBM Planning Assistant. Helps plan monthly household budget, manage real estate and stock investments, calculate and amortize loans, manage business trip expenses, compute balance sheet, etc.

Publisher: Format: Price: Availability: **IBM** Disk \$124.99 IBM

Lotus 1-2-3

Extremely popular full-featured spreadsheet for IBMcompatible micros. Includes powerful data and formatting manipulations, advanced programming capabilities, as well as integrated graphics and mini-database.

Publisher: Format: Price:

Availability:

Lotus Disk \$665.00 Radio Shack

Model Concept

Menu-driven spreadsheet program. Includes on-line help, multiuser support, three-level password security. Reads data from Thoroughbred Business BASIC files, merges sheets into Word Concept documents.

Publisher: Format:

Concept Omega Disk

Price:

\$595.00 (US)

Multiplan

Popular and powerful spreadsheet program. Allows spreadsheets to be linked together for sharing of information. Includes online 50-page reference/help manual. Tandy 6000 XENIX, \$449. Apple II, \$95 US. Macintosh \$195 US.

Publisher: Format:

Microsoft Disk \$245.00

Price:

Availability: Ingram, Radio Shack

PC-Calc

Inexpensive, full-featured spreadsheet system. Allows up to 64 columns by 256 rows, includes math and statistical functions, bar graphs, title locking, individually adjustable column widths, etc.

Publisher: Format:

ButtonWare Inc Disk

Price:

\$59.95 (US)

Perfect Calc

Includes usual calculating operations, split screen display, pop-up menus, ability to share data between up to 15 different spreadsheets, advanced stats functions such as linear regression, interpolation, etc. Apple II version \$139

Publisher: Format: Price:

Thorn EMI Disk \$199.00 (US)

Availability:

Ingram

PFS: Plan

Easy-to-use spreadsheet. Includes all the usual functions, integrates with PFS:Write, PFS:Graph, PFS:File. Apple II version \$125 US

Publisher:

Software Publishing

Format:

Disk \$140.00 (US) Price:

Availability:

Ingram, Radio Shack

Ouickcode for 1-2-3

Automatically creates data entry forms with data validation, writes menu-driven macro programs for data management, adds 'learn' mode to allow creation of Lotus macros on the fly, stores up to 100 macros. Includes macro

Publisher: Format:

Fox & Geller Disk Ingram

\$149.00 (US) Price:

Availability:

SuperCalc 3

Latest version of the popular SuperCalc spreadsheet. Includes data-management functions and graphics, allows creation of command 'macros' to simplify often-used operations. On-screen help built-in.

Publisher: Format:

Sorcim Disk \$495.00

Price: Availability: Radio Shack

Unicalc

Price:

Electronic spreadsheet. Lattice

Publisher: Format:

Disk \$110.00

Availability:

Software Commodities

VisiCalc

The original spreadsheet, still a useful tool. Includes all the basic math functions, cell replication, etc. IBM version \$99 US. Atari XL version \$199.95 US.

Publisher: Format: Price.

VisiCorp Disk \$250.00 (US)

Availability:

Ingram

VisiCalc Advanced Version

Upgraded version of VisiCalc adds features such as extra formatting flexibility, logical commands, protected cells, variable column width, keyboard macros, etc. Publisher:

Format:

Price:

VisiCorp Disk \$400.00 (US)

Availability: Ingram

VisiCalc IV

Latest generation sixteen bit rendition of the old standard. Now offers integrated graphics, keyboard macro programming, advanced data manipulation functions.

Publisher: Format:

Price:

VisiCorp Disk \$250.00 (US)

Availability:

Ingram

INTEGRATED

Combines word processor, spell checker, spreadsheet, database, graphs, and communications. Data interchangeable between modules and with other applications systems. Uses multiple onscreen windows.

Publisher: Format:

Able International Disk (2)

Price:

\$84.95 (US)

Decision Manager

Combines word-processing, spreadsheet, data-management, telecommunications, graphics and mainframe link. Menu-driven, up to 20 windows with 10 displayed onscreen. Supports mouse, Hayes Smartmodem. Interfaces to PeachText 5000.

Publisher: Format:

Peachtree Disk (2)

Price: Availability: \$625.00 (US) Ingram

Electric Desk

Easy-to-learn integrated system offers word-processing, data-management, spreadsheet and communications facilities. Menu and function-key operated. Includes on-disk

Publisher:

Alpha Software Corp

Format:

Price: Availability:

\$345.00 (US) Ingram

Enable

Combines word processing, database, spreadsheet, graphics and telecommunications. Uses windows, with multiple views on a single file or mixed file display with cut-andpaste. Uses graphics mode to show italics, boldface and other effects

Publisher: Format:

Software Group, The

Price:

Disk (2) \$990.00

Availability: PC-Nova, Ingram

Framework II

Combines idea-processing, word-processing, spreadsheet, database, and graphics into unique 'frame' oriented system. Accesses dBase, Multimate and Word-Star files. Uses graphics mode to show printer effects. Works from keyboard or pull-downs.

Publisher: Format: Price:

Ashton-Tate Disk \$895.00

Availability:

Ingram, Radio Shack

GEM Collection. The

Includes GEM Write, a remodelled version of Volkswriter Deluxe designed to take advantage of GEM windowing interface and mouse operation, and GEM Paint, a pixeloriented graphics utility. Also includes basic GEM Desktop environment.

Publisher:

Digital Research Format: Disk

Price:

\$199.00 (US)

Availability: Ingram

HomePak

Includes three packages: HomeText full screen editor with cut & paste, boldface, mail merge, etc; HomeFind data manager; and HomeTerm communications system with XMODEM protocol, file capture to disk. Menu or commands

Publisher:

Batteries Included Disk

Format: Price: Availability:

\$69,95 Beamscope, Ingram

Integrated database, time management, spreasheet, and graphics. Spreadsheet features simplified graphics commands, row/column indicators. Pie, bar, line, area, step, tick graph, scattergrams and spread graph options.

Publisher: Format:

Grafox Disk

Price: Availability:

\$249.95 (US) Progressive Peripherals & Software

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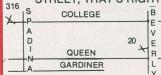
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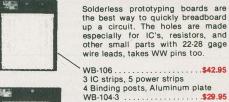
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Publisher: Format:

Emerging Technology Consultants

Price: Availability:

\$139.00 Radio Shack

Disk

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Window-oriented package integrates spreadsheet, wordprocessor, graphics, communications, time-manager, database and calculator. Includes pop-up help windows. Data files up to 32,000 records, 55 fields per record.

Publisher: Format:

Software Products International

Price:

Disk \$395.00 (US)

Availability: Ingram

Combines PeachText word-processor, Random House Electronic Thesaurus, Spelling Proofreader, List Manager, and PeachCalc spreadsheet. Runs in 128K RAM. Interfaces with Peachtree Decision Manager.

Publisher: Format: Price:

Peachtree Disk (2) \$425.00 (US)

Availability: Ingram

Peachtree Home Software Library

Complete starter package for the home computer user, for either IBM PC or PCjr. Includes Peachtree Home Accountant, Home Writer, Home Analyst, BASIC Tutor, Compu-Read reading tutor, Compu-Spell spelling tutor, and Prisoner 2 adventure game

Publisher: Format:

Peachtree Disk \$395.00 (US) Ingram

Price: Availability:

Expanded successor to successful 1-2-3 spreadsheet, integrates new functions including text-editing and expanded data-handling ability, uses windows to display different applications. Includes extensive on-disk tutorial.

Publisher: Format:

Price:

Lotus Disk (2) \$695.00 (US)

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Arctic Data Accounting System

Complete accounting system. Feature self-prompting operation, data validation on entry, multi-user support, many report formats. Modules include AP, AR and GL, \$395 each. Canadian Payroll System \$495. O/E Inventory System. \$695.

Publisher:

Arctic Data

Format: Price:

Disk (2) \$395.00

Back to Basics Accounting System

Double-entry accrual accounting system, consisting of interactive AR, AP, and GL packages. Many features. Price shown is per module. Also available in various combinations.

Publisher:

Peachtree Disk (2) \$195.00 (US) Format: Price: Availability: Ingram

Basic Accounting

Six-module accounting package, customizable, standalone or integrated under Ashton-Tate's Framework II. Includes GL, AP, AR, Invoices, Inventory and Payroll, plus Flexset natural language module, tutorials, etc.

Publisher: Format: Price:

Pearlsoft Disk (2) \$995.00 (US)

Business Partner, The

Complete financial and business management system. Allows development of custom reports, with full audit trails, built-in word processing, etc. Includes AR, AP, GL, job costing, inventory control, sales performance analysis,

Publisher: Format: Price:

Systems West Disk (2) \$2000.00

CEO*Model

A finished, pre-programmed model that can handle all types of financial planning, budgeting and forecasting situations. Helps businesses to make better decisions regarding manpower, materials, services, time and money.

Format: Price:

CEO Software Disk \$885.00

Dac-Easy Accounting

Compact, inexpensive, easy-to-use accounting system. Contains seven full-feature modules: GL, AR, AP, Inventory, Purchase Order, Billing and Forecasting. Over 300 reports from 80 routines. Not copy protected.

Publisher: Format:

Dac Software Inc

Price:

\$69.95 (US)

Dac-Easy Payroll

Complete payroll system, provides built-in 1986 US tax tables, automatic withholding calculations, other deductions, cheque printing, up to 99 departments,. Works either stand-alone or together with Dac-Easy Accounting system.

Publisher:

Dac Software Inc

Format: Price:

\$49.95 (US)

Financial Cookbook

Menu-driven financial calculations designed to be used without any prior knowledge of either finance or computing. Pick from over 30 types of calculations, fill in input form and get tabular results. Supports printers.

Publisher: Format:

Electronic Arts Disk

\$69.95 Price:

Availability: Beamscope, Ingram

I*S Time and Billing

Professional office management system, includes Daily Records, Automatic Billing, AR, Billing Breakdowns, electronic mail. Uses GEM interface.

Publisher: Format:

Batteries Included Disk

Price:

n/a

Integrated Accounting

Complete accounting system, including GL, AR, AP, Canadian Payroll, and Jobcost on a single diskette.

Publisher:

Bedford Software Disk

Format: Price:

\$149.00

Integrated Accounting

Complete accounting system for the small business. Includes AR, AP, GL, Inventory, and Payroll. Implemented using Personal Pearl database system, can be customized by user. Personal Pearl and Programmer's Tool Kit optional.

Publisher: Format:

Pearlsoft Disk (2) \$995.00 (US)

Ingram

Price: Availability:

Integrity Business Software

Complete integrated business system, including AR, AP, GL, Inventory, Sales Order Entry, each \$780, or \$1095 for multi-user versions. Cashbook module \$495 for either single-user or multi-user. Runs under CP/M, MP/M, MS-DOS, Concurrent DOS.

Publisher:

Integrity Management Services Disk

Price: \$780.00

Availability: Lintex Computer Group

Isgur Portfolio

Format:

Sophisticated stock-portfolio management system designed for both the individual and the professional broker. Downloads from CompuServe, Dow Jones or The Source. GEM interface with function key options. Macintosh & ST versions \$199.95.

Publisher:

Batteries Included Disk

Format: \$269.95 Price:

Availability: Beamscope, Ingram

MAP 2 (My Accounting Package)

A "Homemaker accounting and budgeting system" based on the MAP professional accounting package. Includes GL, AR, AP, home budgeting, mortgage, net worth and P&L statements, etc.

Publisher: Micro Global Systems

Format: Price:

\$99.00

MAP 6 (Major Accounting Package)

Menu-operated GL package. Other modules include STAR AR \$695, RARE apartment building AR \$695, CARE condominium AR \$695, MAP5 AP \$695, MISS inventory \$695, SWAP payroll \$695, DATA fixed assets control \$295, FIND info manager \$295

Publisher: Micro Global Systems

Format: Price:

Disk \$895.00

Complete statistics package. Includes missing data handling, interface to external files, buffered data entry, reports, batch or interactive operation, data management subsystem. Accesses ASCII, dBase or DIF files. Tutorial, \$35 extra

Publisher:

Ecosoft Format: Disk (2) Price: \$375.00 (US)

OZ: Management Control

Complete financial management system. Integrates data analysis, grpahics and report generation.

Publisher: Format:

Fox & Geller \$495.00 (US)

Price: Availability: Ingram

Paycheq Controller

Designed to handle complex payrolls of all sizes. Handles tax calculations for all Canadian jurisdictions, multiple unions, employees who work in more than one department, etc. Prints record forms, T4s, etc. Written in RM/ COBOL.

Publisher:

Adrem Information Systems

Format: Disk \$995 00 Price: Availability: V-Pac

Pavtime

Canadian payroll package. Menu and prompt operated. Calculates tax, standard deductions, etc. Prints paycheques, pay slips, T4 slips, reports, master employee list, etc. Written in compiled dBase. Integrates with Sr Accountant GL system.

Publisher: Format:

Zarcom Disk \$595.00

Price:

Peachpak 4 Complete accounting system for the small business with limited computing capacity. Consists of interactive GL, AR, AP packages. Various report formats generated by each module. Apple version requires Microsoft BASIC

Publisher: Format:

Peachtree Disk (2) \$395 00 (US)

Price: Availability:

Ingram

PeachPlan

An account-oriented worksheet designed for beginning computer users. By answering simple questions the user can create budgeting and forecasting models. Interfaces to spreadsheets, Peachtree Business Accounting General Ledger, etc.

Publisher: Format:

Availability:

Price:

Peachtree Disk \$295.00 (US) Ingram

Peachtree Business Accounting Series

Password security, customized statements, audit trails, etc. Modules include GL, AR, AP, Invoicing, Inventory, Payroll, Job Cost, and Fixed Assets. For use either standalone or integrated. Price per module. CP/M versions \$750 US each.

Publisher: Format: Price:

Peachtree Disk (2) \$695.00 (US)

Availability: Ingram

Professional Partner, The

Designed for accountants, provides high-quality financial statements, comprehensive working papers, management reports. Includes built-in word processing, custom ledger codes, reports, etc. Online window help screens. Up to 960 GL accounts.

Publisher: Format: Price:

Systems West Disk (2) \$1200.00

Rags to Riches IV

Includes GL, AR, AP, each available separately for \$199.95 US. Handles up to 5000 accounts, 10,000 transactions. Amiga version is compatible with workbench conventions, supports mouse, icons, windows, multi-tasking,

Publisher: Format:

Price:

Chang Labs Disk \$499 50 (US)

RealWorld Accounting Series

Written in COBOL, maintains all company records. Modules include GL, AP, AR, Order-Entry/Inventory-Control, plus Sales Analysis extension for AR module. Price shown is per module.

Publisher: Format: Price:

RealWorld Disk \$695.00 (US)

Availability:

Ingram

Sr Accountant

Complete business accounting system, includes GL, AR, AP, produces financial statements, budgets, reports. Menu and prompt operated. Many report formats. Written in compiled dBase, integrates with dBase, Lotus, other Zarcom products.

Publisher: Format: Price:

Zarcom Disk \$695.00

PC/XT Compatible Special \$899.00

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Integrated accounting package, based on proven Arctic Data GL, AR and AP systems. Retains all capacity and reporting ability of individual modules, supports up to 500 ccounts, 2000 transactions per month.

Publisher: Format:

Arctic Data Disk (2) \$295 00

SynStock

Price:

Easy-to-use personal stock portfolio manager. Analyzes and displays data and trends in color charts: high/low/ close, moving average and oscillators. Built-in data entry system updates via modem. Download CompuServe stock quotes

Publisher: Format:

Price: Availability: Broderbund Disk \$99.95 (US) Beamscope, Ingram

T1 General. The

Powerful income tax preparation template for Lotus 1-2-3, written by a Chartered Accountant. Provides 'what-if' scenarios, prints actual T1 form for submission to Revenue Canada

Publisher: Format:

Availability:

Price:

AMIES Inc Disk \$99.00 AMIES Inc

T1 Tax Preparation System

Basic version designed specifically for the urban-area tax practitioner, includes all normal forms and schedules. Enhanced version adds farm and business support, fiveyear averaging, investment tax credits, \$750, for MS-DOS only

Publisher:

FD Financial Computer Solutions

Format: Price: Availability: Disk \$495.00 V-Pac

Thoroughbred Accounting Applications

Series of stand-alone modules, including AR, AP, GL, Order Processing, Payroll, Purchase Order, and Fixed Assets. Can be integrated. Written in Thoroughbred Business BASIC, can serve as base for developing customized accounting systems.

Publisher: Format:

Availability:

Price:

Concept Omega Disk \$695.00 (US) Ingram

Integrated time recording and fees ledger accounting system for professional practices. Provides comprehensive reporting of time, costs, work in progress, fee income, client balances, etc. Includes word processing, reports,

Publisher: Systems West Format: Disk (2) Price: n/a

Trader II

Helps investors make better buy-sell decisions. Shows price bars for high, low and closing prices, volume charts, daily activity, up to 10 indicators including moving average, Wilder's relative strength, etc. Prints charts.

Publisher: Format:

BOSS Computer Group Disk

Price: Availability: \$350.00 V-Pac

VersaBusiness Series

Complete accounting systems, including VersaReceivables, VersaPayables, VersaPayroll, VersaInventory and VersaLedger. Price is per module; VersaLedger \$149.95 US. Each can be used separately.

Publisher: Format:

N & E Computronics Inc

Disk

\$99.95 (US) Price:

Your Personal Net Worth

Comprehensive program for tracking, organizing, managing home finances. Allows entry of income, expenses. Provides financial guidance including loan/interest analysis. Up to 10 checking accounts, 350 budget items, etc. IBM version \$99.95.

Publisher: Format: Price:

Scarborough Systems

Disk \$79.95 (US) Availability: Ingram

PROJECT MANAGERS

Harvard Project Manager (HPM)

Graphics-oriented project-management and scheduling tool. Displays 'roadmap' or bar-chart. User specifies task durations, costs, performs 'what-if' analyses. Program supports windowing, includes both tutorial and reference manuals.

Publisher: Format:

Software Publishing

Disk \$395.00 (US) Price: Availability:

Ingram Harvard Total Project Manager (HPTM)

More-advanced companion to Harvard's popular HPM project manager. Features unlimited resource pool, multiproject resource allocation, schedule and cost tracking. Extensive graphics, mouse support. Color or monochrome display. Needs 384K

Publisher:

Software Publishing

Format: Disk (2) \$495.00 (US) Price: Availability: Ingram

Managemint

Menu-driven PERT/CPM project control system. Scheduler option converts arbitrary time units into calendar days, taking into account holidays, etc, \$250. Resource Management option provides reports, graphics, \$250

Publisher: Format:

Institute for Scientific Analysis Disk

\$750.00 Availability: V-Pac

Microsoft Project Manager

Complete project management system. Publisher: Microsoft

Format: Price:

Disk \$395.00 (US) Ingram

Availability:

Penton Project

Develops project plans, maps out networks, does project schedules using CPM and bar charts, tracks and updates schedules, develops budgets, etc. File transfer to and from Lotus, dBase. includes project editor **Publisher:** Penton Software

Format:

Penton Software Inc Disk

Price: Availability: \$2400.00 V-Pac

Project Vision

Does critical-path analysis, prints charts for up to 280 activities. Integrated text editor for memos, activityschedule and float reports, time scale bar charts, etc. Supports IBM graphics adapter, Hercules graphics.

Publisher: Format: Price:

BOSS Computer Group

Disk \$350.00 Availability: V-Pac

GENERAL GRAPHICS

On screen presentation with 10 graph families: line, bar, point, line + point, surfaces, pie, tables, pyramid, icon, and scatter. Each has up to 22 options, text, etc. Nine windows, variable. Reads DIF, SYLK, ASCII files.

Publisher: Format:

Adde Marketing Disk

Price:

\$149.95 (US)

Availability: Progressive Peripherals & Software

Customizes AutoCAD for use in architectural and engineering applications. Includes symbol libraries. Requires

Publisher: Format: Price:

Autodesk Disk (2) n/a

Art Studio, The

Easy-to-use MacPaint type graphics program, uses icon menu to permit selection of brush shapes, fill patterns, shape drawing functions, etc.

Publisher: Format:

Spectrum Holobyte Disk

\$49.95 (US) Availability: Ingram

AutoCAD 2.18

Design and drafting system. Many options, including bidirectional zoom display, unlimited named layers, block moves, solids, custom menus. Basic system \$300. Price shown is for Advanced Drafting Extension system. ADE 3. \$2500.

Publisher: Format: Price:

Autodesk Disk (2) \$2000.00 (US)

Bank Street Storybook

Allows kids to create dynamic multi-page stories with animation and sequencing. Stories can be stored, printed out. C-64 version \$29.95 US.

Publisher: Format:

Mindscape Disk \$39.95 (US)

Price: Availability:

Beamscope, Ingram

CAD/camera

Uses expert systems technology to convert raster images to vector files suitable for editing in AutoCAD.

Publisher:

Autodesk Disk (2)

Format: Price: \$3000.00 (US)

CADVANCE 25

Especially suited to architectural applications. Features menus, prompts, macros, database extractions, fast redraw, translating utility for CalComp System 25 compatibility. LAN support kit including Ethernet board and software, \$2500 US

Publisher: CalComp Hard disk Format: \$4000.00 (US) Price:

ClickArt Personal Publisher

Powerful page-creation system, lets user create complete typeset pages with multiple fonts, graphics, etc. Includes do-matrix support. Laser printer support package \$150 extra.

Publisher: Software Publishing Disk Format: \$185.00 (US) Price: Availability: Ingram

ColorPaint

Graphic design program geared to the IBM PCjr. Provides 16 colors, 30 patterns, various brush styles, mouse support, text, zoom, cut & paste, line drawing, circles and squares with 'rubber band', inverse colors, airbrush, etc.

Publisher: IRM Format: Disk \$144.99 Price: Availability: **IBM**

ConceptG

Easy-to-use business graphics for Thoroughbred Business BASIC environment. Produces horizontal and vertical bar charts, accesses data from any Business BASIC file, allows graph specs to be saved.

Publisher: Concept Omega Format: Disk \$595:00 (US) Price:

Dasoft-PC2

Mouse-driven printed-circuit CAD system. Features autorouting, expandable symbol library, enhanced footprint editor with 6 pad shapes, user-definable pad layouts and library of 600 commonly-used parts. PC boards up to 160

Publisher: Dasoft Design Systems Hard disk Format: \$3495.00 (US) Price:

Delta Drawing

Simple educational graphics program, creates pictures one step at a time using a minimum of keyboard strokes. Pictures may be nested one within another.

Publisher: Spinnaker Disk Format: \$39.95 (US) Price: Availability: Beamscope, Ingram

DGraph, DGraph III

Menu driven package, creates graphs directly from dBase II files, or independently

Publisher: Fox & Geller Format: Disk \$295.00 (US) Price: Availability: Ingram

DR Draw

Interactive picture editor. Includes simple picture element selection: lines, characters, arcs, pie segments, filled rectangles, polygons, etc. Move, copy, delete, zoom, pan.

Publisher: Digital Research Format: Disk Price: \$395 00

Availability: Ingram, Radio Shack

DR Graph

Creates line, bar, step, stick, scatter, pie, or text-only charts. Simple screen prompts allow choice of labels,

titles, legends, colors, type styles, borders. **Publisher:** Digital Research Format: Disk \$245.00 Price:

Ingram, Radio Shack Availability:

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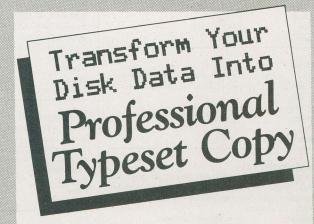
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Software

EnerGraphics

Presentation graphics package. Charts including: pie, line, multi-scale bar and negative bar, three-dimensional bar, GANTT project scheduling, flowcharts, etc. Compatible with Lotus, VisiCalc files. Plotter option \$100 extra.

Publisher:

Enertronics Research Disk

Format: Price:

\$350.00 (US)

Availability:

Ingram

Fontasy

Graphic typography system designed to allow merging of graphics with output from ASCII word processor or editor. Creates user-definable page layouts with multiple columns, etc. Supports dot matrix and HP Laserjet. Over 270 fonts available

Publisher: Format:

ProSoft

Price:

\$49.95 (US)

GEM Draw

Object-oriented drawing system, allows user to create designs and pictures such as logos and flowcharts. Operates under GEM environment, with icons, windows, etc.

Publisher: Format:

Digital Research Disk

Price:

\$149.95 (US)

Availability: Ingram

GEM Graph

Business graphics program designed to utilize GEM windowing interface, with pulldown menus, mouse support,

Publisher:

Digital Research

Format:

Disk \$249.00 (US)

Price:

Availability: Ingram

Grafox

Business graphics program that draws information from any IBM BASIC or comma-delimited data files, or from DIF files

Publisher:

Fox & Geller

Format:

Disk

Price:

\$295.00 (US)

Availability:

Ingram

Graph-in-the-Box

Pop-up graphics utility, takes data directly off application screen. Produces bar, line, pie, scatter, filled, stacked, and other chart types. Supports popular dot matrix and laser printers, HP plotters

Publisher:

New England Software

Format:

Disk

\$97.60 (US)

Harvard Presentation Graphics

Complete business graphics package, offers unlimited text sizes, 17 fonts, 16 colors, 3-D capabilities, lines, arrows, boxes, etc. Outputs to most printers, plotters. Imports Lotus files. Menu operation or batch modes.

Publisher:

Software Publishing

Format:

Price: Availability: \$395.00 (US) Ingram

IBM Drawing Assistant

Create drawings, move, copy, zoom, pattern fill, invert, airbrush, etc. Includes 4 type styles. Supports keyboard or mouse. Drawings can be included in IBM Writing Assistant documents.

Publisher:

Format: Disk \$249.99 Price: Availability: **IBM**

IBM Graphing Assistant

Imports data from IBM Filing Assistant, IBM Planning Assistant. Allows up to 4 data sets on one chart, up to 4 colors per chart. Outputs to plotter or printer. Menu operated, includes bar charts, pie charts, line charts.

Publisher: Format:

IBM Disk

\$199.99

IBM

Price:

Availability:

IBM PC Storyboard

Produces colorful presentations, includes 4 modules: Picture Taker, Picture Maker, Story Editor, and Story Teller. Compiles images from other PC-DOS programs, creates original color art, allows copying, cut & paste, adding text, slideshows.

Publisher: Format:

Disk \$369.99

Price: Availability:

IBM PDS Graphs Edition

Converts data from IBM Personal Decision Series Data Edition to bar, line, pie, scatter and text charts. Allows multiple plots on one graph, color, fill patterns, up to 4 graphs per page with custom sizing, plotter and printer

support. Publisher: Format: Price:

IBM Disk \$299.99 **IBM**

Availability:

Works with popular database systems such as dBase, R:Base or any system that writes directly to BIOS using interrupt 10H. Adds stored images to database records. Requires high-res capture and display boards such as Quadram Palette seriess.

Publisher: Format: Price:

Availability:

Quadram Hard disk \$795.00 Chevco

Imageware 100

Works with Quadram Palette Master enhanced display board. Icon-driven graphics editor allows addition of multi-font text, texturing, color fills, etc. Supports mouse, digitizer pad, cursor keys.

Publisher: Format:

Quadram Hard disk \$475.00

Price: Availability:

Chevco

Imageware Toolkit

Custom database construction kit, allows user to create applications using integrated pictures and data. Photoquality images can be merge using display hardware such as Quadram Palette series. Supports standard printers.

Publisher: Format:

Quadram Hard disk \$1595.00 Chevco

Price: Availability:

K-Graph

Produces four types of bar graphs, two types of area plots, three types of pie charts, plus scattergrams, line graphs, etc. Displays multiple graphs via split screen. Uses data from KnowledgeMan database, spreadsheet, arrays, or variables.

Publisher:

Micro Data Base Systems

Format: Disk \$225.00 (US) Price:

Availability:

Ingram

Map-Master

Contains information for mapping USA by state, including population, retail sales, age and income statistics. Thousands of additional regions can be mapped using separate data disks. Inputs data from spreadsheet or database, adds to map.

Publisher: Format:

Decision Resources

Disk \$395.00 (US)

Ingram

Price: Availability:

Microsoft Chart

Complete business graphics system, does pie, line, bar charts, etc. Programmable chart definitions automatically generate charts from dBase, Multiplan, Lotus files. Macintosh version \$125 US.

Publisher: Format:

Microsoft Disk

Price:

\$295.00 (US)

Availability: Ingram

Mr Pixel's Cartoon Kit

Kids select or build cartoon characters, combine them into cartoon features. Integrates with Mr Pixel's Programming Paint Set.

Availability:

Publisher: Mindscape Disk Format: \$34.95 (US) Price:

Mr Pixel's Electronic Paint Set

Lets kids draw in full color, change their creations in novel ways. Compatible with Mr Pixel's Cartoon Kit. C-64 version \$39.95 US

Beamscope, Ingram

Publisher: Format:

Mindscape Disk

\$29.95 (US) Price: Availability: Beamscope, Ingram

OfficeGraphics

Memory-resident, captures any graphic screen, clips, rotates, sizes. Incorporates images from popular graphic packages into OfficeWriter documents. Supports most laser, dot matrix and color matrix printers. OfficeWriter required.

Publisher:

Office Solutions

Format:

\$145.00 (US) Price: Availability:

Disk

Ingram

Org

Unique package specifically for creating organization charts. Type names, titles and comments. Display shows manager and subordinates, automatically draws boxes, lays out text and lines. Prints charts for up to 250 em-

ployees, 99 levels. Publisher:

Format:

Price:

Banner Blue Disk \$69.95 (US)

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The first configuration, ideal as an entry level system, second office computer, or for home use, consists of a single 360KB floppy disk drive and 256KB of RAM.

EQUITY I Configuration 2

If you need more muscle, step up to the dual floppy disk drive, 256KB RAM system. With its 720KB of disk storage, this configuration is ideal for more intensive word processing, spreadsheets and telecommunications activities.

EQUITY I Configuration 3

For a real boost in performance, you'll love the single floppy drive with the addition of a 20MB internal hard disk. It's a combination with the power to tackle business applications such as accounting and database management.

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EQUITY II Configuration 1

The first configuration boasts a single 5 1/4-in., 360K floppy disk drive and 640K RAM memory. It packs enough punch to give you the edge across a broad range of business activities.

EQUITY IIConfiguration 2

For even more power, move up to the second configuration. Its single 360K floppy disk drive with 20MB internal hard disk is ideal for everything from heavy duty number crunching to storing reams of information.



EQUITY III Configuration 1

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IBM I

Software

Overhead Express

Fancy-font typesetting package oriented toward production of overhead-projector transparencies. Twelve predefined screen templates included, plus editor for customization or design. Four typefaces, italics, in five sizes. Graphic symbols.

Publisher: Ashtom Tate
Format: Disk (2)
Price: \$195.00 (US)
Availability: Ingram

PC Paintbrush

MacPaint-style drawing program, uses pull-down menus, various brushes, cut/paste, include print from several build in fonts in seven styles and seven sizes. Shows 16 colors on EGA, 256 colors on Number Nine Revolution card. Supports mouse.

Publisher: ZSoft
Format: Disk
Price: \$195.00

Availability: Aldershot Alternatives

PFS: Graph

Generates several types of charts including pie, line, bar, side by side bar with pattern fill, stacked bar, etc, from PFS:File data. Combines chart types on one display, merges with PFS:Write documents. Apple II version \$125 US. Publisher:

Software Publishing

Format: Disk
Price: \$140.00 (US)
Availability: Ingram, Radio Shack

Print Shop Graphics Library - Disk 1 & 2

Two sets of extra Print Shop graphics, each containing 120 new designs for holidays, special occasions, sports, school, etc. IBM version \$34.95 US.

Publisher: Broderbund
Format: Disk
Price: \$24.95 (US)
Availability: Beamscope, Ingram

Print Shop, The

Simple menus allow the user to print out banners, letterheads, signs, cards, etc. Choose from many built-in designs, use edit screen to create your own original art. Several built-in fonts. Apple II \$49.95 US, C64 or Atari 800 \$44.95 US.

Publisher: Broderbund
Format: Disk
Price: \$59.95 (US)
Availability: Beamscope, Ingram

PrintMaster

Unabashed clone of Print Shop, allows users to create banners, cards, signs, etc, by pasting together pre-drawn graphics and fancy text fonts. Includes 8 fonts, 11 borders, 111 graphic images, editor. Art Gallery of extra pictures \$44.95.

Format: Unison World Disk
Price: \$59.95 (US)
Availability: Ingram, STari

Printworks

Changes fonts, typestyles, merges text and graphics, enlarges or reduces printed image, cuts and pastes, etc. Mac version \$75 US. IBM laser version \$125, supports HP LaserJet, Canon, Xerox and NCR, provides Epson MX/IBM Graphics emulation.

Publisher: SoftStyle Solutions
Format: Disk
Price: \$69.95 (US)
Availability: Ingram

Professor Pixel

Teaches graphics, animation, and sound on IBM PC. Guides the student through ideas relating to color, resolution, shapes, lines, etc. For those with some experience in BASIC programming.

Publisher: Individual Software

Format: Disk
Price: \$59.95 (US)
Availability: Ingram

RoboCAD-PC

Third-generation, easy-to-use professional CAD system. Works using a mouse, pull-down menus and icons. Includes interface for passing files to and from AutoCAD.

Publisher: ROBO Systems Corp Format: Disk Price: \$1495.00 (US)

Samna Decision Graphics

Developed by ADDE marketing in Paris, this is the top selling graphics system in France. Utilizes data from all popular database and spreadsheet systems.

Publisher: Samna
Format: Disk
Price: \$645.00

Availability: Aldershot Alternatives

ScLaserPlus

Sophisticated document processor for in-house publishing. Includes text editor, ScWriterPlus word processor, screen snapshot facility, formatter, icon editor, symbol library. Combine graphics and documents, supports HP LaserJet printer.

Publisher: Graham Software Format: Disk Price: \$495.00 (US)

VisiTrend/Plot

Statistical graphing system, allows input and analysis of time series data. Automatically does multiple linear regression, trendline forecasting, smoothing, etc.

Publisher: VisiCorp
Format: Disk
Price: \$99.00 (US)
Availability: Ingram

Windows Draw!

Complete object-oriented drawing package, designed to work under Microsoft Windows windowing environment. Allows Lotus charts to pulled directly from spreadsheet window, etc, then enhanced. Requires Microsoft Windows.

Publisher: Micrografx
Format: Disk (2)
Price: \$199.00 (US)
Availability: Ingram

MUSIC

Bank Street Music Writer

Computer arranges notes on two music staffs, makes it easy for beginners to compose tunes, experiment with melody, harmony, rhythm. Able to include repeats, endings, triplets, etc.

Publisher: Mindscape
Format: Disk
Price: \$39.95 (US)

Music Construction Set

Uses the icon conventions of the Pinball Construction Set, but applies them to a music staff. Allows the user to assemble long passages then play them back. Apple version supports Mockingboard. C-64 and Atari version \$22.95 US

Publisher: Electronic Arts Format: Disk Price: \$39.95 (US)

Music Studio, The

MIDI software for composing and editing scores. Up to 15 channels controllable at the same time. Uses pulldown menus, windows, etc. Includes library of compositions.

Publisher: Activision
Format: Disk
Price: \$79.95

Notable Phantom, The

First in a series of music learning games. Includes piano keyboard overlay, teaches note names, positions on staff and keyboard in a game of ghosts, phantoms, and spiders. Lets kids compose and save songs. Includes songbook of favorites

Publisher: DesignWare Format: Disk Price: \$49.95 (US)

COMMUNICATIONS

AlchemyOnline

Bulletin board system, allows each user to have custom interface, menu-driven or emulating MS-DOS, CP/M, UNIX operating system command structures. Integrated message and file exchange, user-created 'subdirectories', online help, etc.

Publisher: Alchemy Mindworks Format: Hard disk Price: \$99.00

Crosstalk

Comprehensive data communications program. Works with most modems, offers smart-terminal emulation, autodial, auto-answer, data-capture, file transfer, online help, etc. Supports KERMIT protocol for mainframe transfer. Works with TopView.

Publisher: Microstuf
Format: Disk
Price: \$195.00 (US)
Availability: Ingram

Crosstalk XVI

Upgraded sixteen-bit version of popular communications package. Includes all former capabilities plus dual terminal/status displays and operation up to 9600 baud, hardware permitting. Needs 96K RAM.

Format: Disk
Price: \$195.00 (US)
Availability: Ingram

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Software

DisplayComm BSC

Allows DisplayWrite 3.documents to be transferred to and from IBM standalone DisplayWriter workstation, IBM PC, IBM 5520 Administrative System, Office System 6, or other IBM host systems.

Publisher: Format: Price: Availability: IBM Disk \$549.99 IBM

I*S Talk

GEM-based communications system. Features menus, windows, 300K RAM capture buffer, capture to disk, full-screen editing of incoming text, 50,000-word spell checker, 3 levels of macros, memo function, online help. ST version \$109.95.

Publisher: Format: Batteries Included Disk

Price:

\$139.95

Intellicom

Complete terminal package. Supports ASCII, XON/ XOFF, XMODEM, KERMIT, CompuServe A protocols. Emulates many popular terminals. Auto login macros, user defined function keys, color support, variable buffer size, online help:

Publisher: Computer Toolbox

Format: Price: Disk \$69.95 (US)

LANLink

Inexpensive, RS-232 based LAN system. Run up to eight satellites from single server, use multiple servers, limit access from individual satellites, etc. Cost is for starter kit. Additional satellite modules \$195 each. RS-232 cable included.

Publisher: Software Link Format: Hard disk Price: \$745.00 Availability: Software Link

PC to Mac and Back

Allows communication between IBM PC and Macintosh. Also provides general purpose communications between RS-232 systems. Includes IBM and Mac disks, cables, etc.

Publisher: Format: Dilithium Press Disk

Price: \$149.95 (US)

PC/InterComm

VT100 terminal emulator and communications package. Runs full-screen applications just as they would be on host computer. Saves incoming data to disk. Includes menus, onscreen status, logon macros, etc. Uses KERMIT and XMODEM protocols.

Publisher: Format:

Mark of the Unicorn

Price:

Disk \$179.50 STari

Availability:

Perfect Link

Uses pop-up menus to simplify log-on to commercial data services. Offers automatic installation for various modems, terminal emulation, ability to customize function keys, etc. Reads and writes various disk formats. Apple II version \$109 US.

Publisher: Format:

Thorn EMI

Price:

Disk \$129.00 (US)

Availability:

Ingram

PFS: Access

Easy to use communications package, featuring data encryption, automatic dial up and log on to frequently used services, text file upload/download, etc. Supports both 300 and 1200 baud transmission. Apple //e version \$75.00

Publisher:

Software Publishing Disk

Format:
Price:
Availability:

\$140.00 (US) Ingram

Remote

A remote-console program allows callers to run any program on the host computer. Offers various levels of password protection for host system.

Publisher:

Microstuf Disk

Format: Price:

\$195.00 (US)

Availability:

Ingram

SideTalk

Package of communications programs plus SCL communications programming language interpreter. Includes electronic mail, data transfer, bulletin board. Memoryresident or stand-alone, command-line or menus, multitasking operation. Uses Hayes.

Publisher: Format:

Lattice Disk \$119.95 (US)

Price: Availability:

Ingram, Software Commodities

Transporter

Working from a 'task list' this program will perform mass data transfers unattended. Communicates with any computers running Crosstalk. Provides 'results log' for programmed task. Needs 96K RAM.

Publisher: Format: Microstuf Disk \$295.00 (US)

Ingram

Price: Availability:

RECREATION ACTION GAMES

Championship Lode Runner

Follow-up for masters of the original Lode Runner. Same game with new 50 maze-screens designed to test the ability of the speediest Runner. Complete in itself, but does not include game-builder option. Atari 800 version \$29.95 US.

Publisher: Format:

Broderbund Disk

Price:
Availability:

\$34.95 (US) Beamscope, Ingram

Crossfire

Roving robot shoot out on a rectangular city grid. Move and shoot in four directions, try to avoid marauding alien insects. PC version on cartridge, for PCjr only.

Publisher:

Sierra On-Line

Format: Price: Disk

Availability:

\$44.99 IBM



F-15 Strike Eagle

Fly an F-15 fighter on simulated missions in the middle east. Use out of the cockpit 3D view and a HUD (Heads Up Display) to track air and ground targets. Includes multiple combat scenarios.

Publisher: MicroProse Format: Disk Price: \$34.95 (US) Availability: Ingram

Hellcat Ace

Wartime flight simulator. Protect the aircrafet carrier Midway from Zero attack. Fly real combat aerial maneuvers. Displays out of the cockpit forward view, airspeed, etc. C-64 version, \$29.95 US.

Publisher: MicroProse Format: Disk Price: \$34.95 (US) Availability: Ingram

Jumpman

You control the little Jumpman. Climb ladders, jump across gaps and over dangerous moving obstacles. Includes huge variety of screens, each with different enemy attackers. Play at beginner, intermediate or advanced level.

Publisher: Epyx
Format: Disk
Price: \$49.99
Availability: IBM, Beamscope

Lode Runner

Simple but strategic chase game. Manoever a little man around many levels of brick platforms, up and down ladders, etc. Recover all the treasures before the enemy gets you. Screen-builder utility built-in. Macintosh version \$39.95 US.

Publisher: Broderbund
Format: Disk
Price: \$39.95

Availability: Beamscope, Ingram, Radio Shack

Night Mission Pinball

Meticulous pin-ball simulation. Offers flexible options such as variable speed, tilt sensitivity, sounds, scoring. C-64 version \$29.95 US. IBM version \$39.95 US.

Publisher: Sublogic
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Pinball Construction Set

Bill Budge's classic creative game-builder. Moving an onscreen pointer with the joystick the user can assemble various stock components such as bumpers, targets, and obstacles into a working pinball game. Games can be could to dick

Publisher: Electronic Arts
Format: Disk
Price: \$44.95

Availability: Beamscope, Ingram, Radio Shack



IBM₁

Software

Quest for Tires

As the cartoon caveman BC, the player rides his wheel past various obstacles. Jump over rocks, pits, duck to avoid overhanging limbs, etc. Simple game features surprisingly accurate rendition of the comic-strip characters. 30

Publisher:

Sydney Development, Sierra On-

Line

Format: Price: Availability: Disk \$44.95 Radio Shack

Search four levels of 32 rooms, avoiding traps, Robo-Droids, Whirling Drones, and Snap Jumpers. Find the elusive Shadow.

Publisher: Format:

Price:

Broderbund Disk \$39.95

Availability:

IBM, Beamscope, Radio Shack

Sierra Championship Boxing

Set up your boxer's stats: height, weight, reach, etc. Then match him against champs like Ali, Frazier, Tunney. Determine strategy, or go head to head. Graphic display gives you a ringside seat. C-64 version \$24.95 US. Mac version \$39 95

Publisher:

Sierra On-Line

Format: Price:

Disk \$34.95 (US)

Availability:

Ingram

Spitfire Ace

Fly a Royal Marine Spitfire over London, shoot down attacking fighters. Wartime flight simulator lets you fly real combat maneuvers. Shows out of the cockpit forward

Publisher: Format:

MicroProse Disk \$34.95 (US)

Price: Availability:

Ingram

ADVENTURE GAMES

Adventure Master

Users are helped to design their own text adventure games, describe up to 60 locations, plan events, create secret exits, hide objects, etc. Includes graphic capabilities, editing, and one complete adventure.

Publisher: Format:

CBS Software Disk

Price: Availability:

\$24.95 (US) Ingram

Black Cauldron, The

Graphic adventure based on the animated Walt Disney movie of the same name. Uses color graphics, animated characters, etc. Joystick or keyboard control, multiple solutions and variable scoring.

Publisher: Format:

Sierra On-Line

Price:

Disk \$39.95 (US) Availability: STari

Borrowed Time

Play the part of Sam Harlow, private eye in the thirties. Find out who's trying to kill you, collect evidence. Uses keyboard commands, function keys and mouse. Animated illustrations. A two-disk set.

Publisher: Format:

Activision Disk \$59.95

Price: Availability: Beamscope, Ingram

Brimstone

Sir Gawain quests to escape the chaotic underworld of Ultro with the five Mystical Words. Electronic Novel text adventure, includes hardbound manual. Atari and C-64 versions \$39.95 US. Atari needs 2 disk drives.

Publisher: Format:

Broderbund \$44.95 (US)

Price: Availability: Beamscope, Ingram

Computer Novel Construction Set

Allows creation of complete interactive text adventures. Create and connect rooms, devise objects, characters, timed events, then indicate interrelations. No programming skills required.

Publisher: Format:

Hayden Disk Price: \$49.95 (US) Availability: Ingram

Coveted Mirror, The

Animated graphic adventure includes skill and action games that help with the solution. You must escape the prison of the evil king Voar and find the five pieces of the magic mirror. Apple & C-64 versions \$17.95 US, Amiga \$29.95 US.

Publisher: Format:

Availability:

Price:

Penguin/Polarware Disk \$19.95 (US) Ingram

Crimson Crown, The

Graphic/text adventure. You are a lone hero wandering a nightmare kingdom, exploring caverns and castles, finding magic objects and solving riddles.

Publisher: Format:

Penguin/Polarware

Price: Availability: Disk \$19.95 (US) Ingram

Cutthroats

You are the chief diver at a backwater island, working for some shady characters. Try to recover sunken treasure. Pure text, with sophisticated Infocom command parser. C-64 and Atari XL versions \$34.95 US.

Publisher: Format: Availability:

Infocom Disk \$39.95 (US)

Ingram, Radio Shack

Deadline

Highly sophisticated interactive text adventure. You have 12 hours to find the murderer who lurks within the Robner household. Search rooms, interview suspects, find clues. An incredible logic puzzle. C-64 and Atari XL versions \$44 95 US

Publisher: Format:

Infocom Disk

Price: Availability:

\$49.95 (US) Ingram

Enchanter

First in a trilogy, a successor to the popular Zork series of pure text adventures. You must enter the Castle of the Enchanter, collect spells, and eventually outsmart the Evil Warlock. C-64 and Atari XL versions \$34.95 US.

Publisher: Format:

Infocom Disk

\$39.95 (US) Price: Availability: Ingram

Essex

Board the starship Essex as it races to save the one scientist capable of preventing the destruction of the universe. Unique Electronic Novel text adventure. Includes hardbound manual. C-64, Atari versions \$39.95 US. Atari needs 2 drives.

Publisher: Format:

Broderbund Disk

Price: \$44.95 (US) Availability: Beamscope, Ingram

Ghostbusters, The Computer Game

You start your own Ghostbuster franchis, equip your team, search for the temple of Zuul in order to save the city. Based on the movie. Price varies depending on system.

Publisher: Format:

Activision Disk

Price: \$39.95 (US) Availability: Ingram

Hacker

Break into the computer network of Magma Ltd, try to run a remote-controlled subterranean laser, travel around the world to track down stolen pieces of The Magma Project document, negotiate with spies, etc.

Publisher: Format:

Activision Disk

\$59.95 Price:

Availability: Beamscope, Ingram



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Hitchhiker's Guide to the Galaxy

Ideosyncratic adaptation of the hilarious British radio/TV series. Follow Arthur Dent on a bizarre excursion through the universe following the destruction of Earth to make way for a hyperspace bypass. Pure text. C-64, Atari XL \$34.95 US.

Publisher: Infocom
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Hulk, The

Text/graphic adventure based on the popular Marvel Com-

ics character.

Publisher: Adventure International

Format: Disk
Price: \$29.97 (US)
Availability: Ingram

Infidel

Working on an archaeological dig in the desert, you have unwisely annoyed your Arab workforce, who abandon you. Alone you must find the lost pyramid, decipher its mysteries, and escape with its treasure. Pure text. C-64, Atari XL \$39.95 US.

Publisher: Infocom
Format: Disk
Price: \$44.95 (US)
Availability: Ingram

King's Ouest

An adventurous world of three-dimensional graphics, sound, animated characters. Guide Sir Graham on his quest. Different mysteries and obstacles with each session.

Publisher: Sierra On-Line Format: Disk Price: \$49.95

Availability: IBM, Ingram, Radio Shack

King's Quest II — Romancing the Throne

New generation of graphic adventures features animated characters guided by keyboard, joystick or full sentences. Fairy tale story has multiple solutions, scored according to cleverness, permits multiple playings. MS-DOS version \$49.95.

Publisher: Sierra On-Line Format: Disk Price: \$69.95

Availability: Ingram, Radio Shack, STari

Mindshadow

You are an amnesiac, travelling across a mysterious island, avoiding perils in swamp, jungle and cave while in search of your identity. A strange bird, the Condor, helps you along.

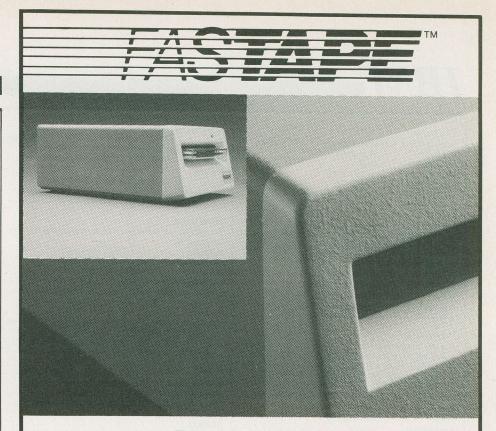
Publisher: Activision
Format: Disk
Price: \$59.95

Availability: Beamscope, Ingram

Mindwheel

Take a trip through four minds: rock star, dictator, poet and scientist. Search out the Cave Master and the Wheel of Wisdom. Unique text adventure in the Electronic Novels series. Atari and C-64 \$39.95. Atari version needs 2 disk drives.

Price: Broderbund
Format: Disk
Price: \$44.95 (US)
Availability: Beamscope, Ingram



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IBM.

Software

Oo-Topos

Science-fiction adventure. Features text and graphics.

Publisher: Penguin/Polarware

Format: Price:

Disk \$19.95 (US)

Availability: Ingram

Planetfall

You are freed of the overbearing presence of Ensign Blather when your starship suddenly explodes. You must survive on a strange and hostile world, aided only by Floyd, the somewhat demented robot. Pure text. C-64, Atari XL \$34.95 US

Publisher: Format:

Infocom Disk

Price: Availability:

\$39.95 (US) Ingram, Radio Shack

Prisoner 2

You are incarcerated on The Island, a pleasantly-landscaped but deceptive little Town shown in hi-res. Each of 20 buildings offers a unique excursion into paranoia and paradox. Solve the riddle within the riddles and escape if you can

Publisher: Format:

Peachtree Disk \$32.95 (US)

Price: Availability:

Ingram

Rogue

Quest to find a mystical amulet hidden within a deep dungeon maze. Allows multiple plays, generates new dungeon maps. IBM version \$29.97 US.

Publisher: Format:

Price:

Epvx Disk \$40.00 (US) Ingram

Seastalker

Availability:

Junior-level adventure is a challenge for all ages. Command a submarine on a dangerous mission. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher: Format: Price:

Infocom Disk \$39.95 (US) Ingram

Availability:

Seven Cities of Gold

Role playing adventure based on the conquest of the new world. Discover the coastline, Caribbean islands. Land, explore, trade with the natives. Try to find a strategy for building a strong colony. C-64 and Atari version \$32.95

Publisher:

Electronic Arts

Format: Price:

Disk \$39.95 (US)

Availability:

Beamscope, Ingram

Sorcerer

Sequel to the Enchanter, and second in text adventure trilogy. Once again you are the novice wizard, now ensconced in the wizards' guild hall. Try to solve the mystery of the missing master wizard. C-64 and Atari XL versions \$39.95 US.

Format:

Publisher: Infocom Disk \$44.95 (US) Price:

Availability:

Ingram

Spellbreaker

Journey through magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$44.95 US.

Publisher: Format: Price:

Infocom Disk \$49.95 (US) Ingram

Availability:

Spiderman

Text/graphic adventure based on the popular Marvel comics character.

Publisher:

Adventure International Format: Disk

Price: Availability:

\$29.95 (US) Ingram

Starcross

In the year 2186 you must pilot your starship, rendezvous with a gargantuan ship from another galaxy, and solve incredible alien puzzles. Pure text. Atari XL and C-64 versions \$44.95 US

Publisher:

Infocom Format: Disk \$49.95 (US) Price: Ingram

Availability:

Suspect

Murder mystery adventure. Pure text. C-64 and Atari XL versions \$39.95. Infocom

Publisher:

Format: Price: Availability:

Disk \$44.95 (US) Ingram

Suspended

Unique combination of text adventure, board game, and simulation. You brain is connected to the Underground Complex. Using only your six peripheral robots you must minimize casualties by properly administering life support systems.

Publisher: Format: Price:

Infocom Disk \$49.95 (US)

Availability:

Ingram

Temple of Apshai Trilogy

Interactive adventure. Journey through a maze of over 200 rooms, filled with monsters and treasures. Publisher:

Format: Price:

Ерух Disk \$49.95

Availability:

Beamscope, Ingram

Tracer Sanction, The

Text/graphic adventure. Your mission is to track down a deadly interstellar criminal. C-64 version \$29.95 US.

Publisher: Format:

Activision Disk

Price:

\$39.95 (US) Availability: Ingram

Transvlvania

Popular graphics adventure has player fending off werewolves, vampires while in search of endangered Princess Sabrina. Available in double Hi-Res for Apple //e. IBM, ST, Macintosh version \$19.95 US. Amiga \$29.95 US

Publisher:

Penguin/Polarware

Format: Price:

Disk \$17.95 (US)

Availability: Ingram

Wishbringer

Journey through a magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher:

Infocom Disk \$39.95 (US)

Price: Availability: Ingram

Witness

Format:

In the pulp detective world of the thirties a case of blackmail turns to murder. You have 12 hours to untangle a web of clues, motives and alibis, supported by police file of physical evidence. Pure text. C-64 and Atari XL versions \$34.95

Publisher:

Infocom Disk

Format: \$39.95 (US) Price:

Availability: Ingram, Radio Shack

Zork I: The Great Underground Empire

Armed with sword and lantern you venture down into the lost subterranean kingdom of Frobozz. Slay troll, solve puzzles, find treasures, evade the villanous thief. Pure text. Two sequels. TRS-80 version \$19.95. Atari XL and C-64 \$34.95 US.

Publisher: Format:

Infocom Disk

Price: \$39.95 (US) Availability: Ingram, Radio Shack

Zork II: The Wizard of Frobozz

Discover a previously hidden section of the Underground Empire. Meet the Wizard, solve puzzles. Sequel to Zork I, but can be played on its own. Pure text. C-64 and Atari XL versions \$39.95 US

Publisher:

Infocom Disk

Format: Price: \$44.95 (US) Availability: Ingram

Zork III: The Dungeon Master

Culmination of the Zork trilogy. You encounter the Dungeon Master himself, and your destiny hangs in the balance. Pure text. Atari XL and C-64 versions \$39.95 US

Publisher: Format: Price:

Infocom Disk \$44.95 (US)

Availability: Ingram

ROLE-PLAYING GAMES

50 Mission Crush

Role-playing simulation makes you the pilot of a B-17 Flying Fortress. Try to survive 50 raids over France and Germany, try to advance from Lieutenant to Brigadier General. Introductory level of difficulty

Publisher: Format:

Strategic Simulations Disk \$39.95 (US)

Price: Availability:

Ingram

Alter Ego

Lets you experiment with 'what-if', presents hundreds of life situations, tracks your development through 7 life stages from infancy through the golden years. Become an executive, a rock star, a bum, etc. Male and female ver-

Publisher: Activision
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Galactic Gladiators

You are caught in the middle of a cosmic shootout among 14 bizarre alien species. Continued in Galactic Gladiators.

Publisher: Strategic Simulations
Format: Disk
Price: \$19.98 (US)
Availability: Ingram

Omnitrend's Universe

Adventure role-playing simulation divided into 3 sections: Construction, Flight and Starport. Get a loan, outfit your spacecraft, hire crew, travel from planet to planet, fight raiders, mine ores, conduct trade. Highly detailed, multidisk

Publisher: Omnitrend Software

Format: Disk Price: \$98.50 (US)

Omnitrend's Universe II

Travel among 47 detailed planets, battle intelligent enemy ships, maintain complex crew characters and ships systems. Uses text parser for planetside interactions, graphics for space battles. Pull down menus, etc simplify use.

Publisher: Omnitrend
Format: Disk
Price: \$105.00
Availability: STari

Rings of Zilfin

Retrieve the magical rings and defeat Lord Dragos. Use arrows, sword, develop magical abilities. Realistic 3-D scrolling graphics based on Penguin's Graphics Magician software. Introductory level of difficulty.

Publisher: Strategic Simulations
Format: Disk
Price: \$39.95 (US)

Availability: Ingram

Sundog, The Frozen Legacy

Combines graphics, action and problem-solving. Uses 'zoom action' display. Move around plan-view map, then zoom in on specific areas to interact with detailed environment, interact with characters, etc. Travel from planet to planet.

Publisher: FTL Games
Format: Disk
Price: \$39.95 (US)

Ultima II

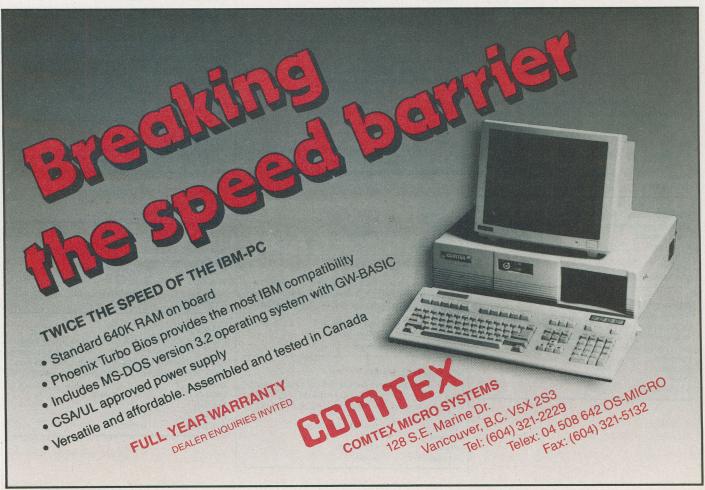
Classic second chapter in the Ultima series pits you against Mondain's apprentice, Minax. Travel across scrolling display of earth in seven different time periods, and finally explore strange planets in space. ST version \$79.95 Canadian.

Publisher: Sierra On-Line
Format: Disk
Price: \$29.95 (US)
Availability: Ingram, STari

Ultima III

Third in the splendid Ultima series of role playing adventures. This edition has all the features of Ultima II, but allows a party of up to four adventurers to journey together. Each character has distinct attributes. C-64, Atari \$49.95

Publisher: Origin Systems
Format: Disk
Price: \$59.95 (US)
Availability: Ingram



IBM I

Software

Ultima IV

Sixteen times larger than Ultima III. Enter Brittania, kingdom of Lord British. Journey through infinite terrain, converse with characters on hundreds of topics, unravel the mysteries of a superior magic system. Beware of demons, dragons.

Publisher: Origin Systems
Format: Disk
Price: \$60.00 (US)

Wizardry — Proving Grounds

Highly-acclaimed role-playing game. Player(s) lead party of adventurers into "The Proving Grounds of the Mad Overlord". Graphics, text display shows ten-level maze, monsters, treasures. Apple II version \$49.95 US. Available in French.

Publisher: Sir-Tech
Format: Disk
Price: \$59.95 (US)
Availability: Ingram

SIMULATION GAMES

Ancient Art of War, The

Accurate, detailed simulation of military strategy and tactics through the ages. Plan camplaigns, choose troops, direct battles, zoom in to engage in close-up animated conflict. Game generator included. Apple II version \$39.95 US.

Format: Broderbund
Format: Disk
Price: \$44.95 (US)
Availability: Beamscope, Ingram

Archon

Unique variant on traditional chess, with odd creatures occupying squares that range through various shades rather than just black and white. Role-playing type conflict settles attacks of one piece on another. Graphic display of the field.

Publisher: Electronic Arts
Format: Disk
Price: \$49.95
Availability: Beamscope, Ingram

Backgammon 5.0

The ever popular game of skill and chance, as played by your computer.

Publisher: Odesta
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Balance of Power

Strategic political simulation. You play the part of either the Russians or the US, keep track of press reports, send arms to rebels, send financial aid to friendly powers, try to gain prestige while avoiding nuclear confrontation.

Publisher: Mindscape
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Baron

Speculate in real estate, keep an eye on mortgage rates, national and international events, etc. Start with \$35,000 and try to parlay it into a million in 52 game-weeks. C-64 version \$29.95 US, Apple II version \$49.95 US.

version \$29.95 US, Apple II versi
Publisher: Blue Chip
Format: Disk
Price: \$59.95 (US)
Availability: Ingram

Battle for Normandy

Recreates the massive Allied invasion of northern France in June 1944. Intermediate level of complexity.

Publisher: Strategic Simulations
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Battle of Antietam

Grand-tactical recreation of the Civil War's bloodiest day. Includes introductory, intermediate and advanced level

Publisher: Strategic Simulations
Format: Disk
Price: \$49.95 (US)

Availability:

Bridge 4.0

Popular simulation of the card game. ST version uses full graphics and mouse, works with both color and monochrome display.

Ingram

Publisher: Artworx
Format: Disk
Price: \$29.95 (US)
Availability: Ingram

Cartels & Cutthroats

Run your own megabucks corporation in the economic jungle of Big Business. For up to 6 players.

Publisher: Strategic Simulations
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Charles Goren: Learning Bridge Made Easy

Teaches both bidding and play. Quizzes, evaluations, explanations clarify topics such as hand evaluation, opening bids, responses, rebids. Randomly generated hands plus 100 selected hands. Play declarer or defense, increasing difficulty.

Publisher: CBS Software
Format: Disk
Price: \$79.95 (US)
Availability: Ingram

Chess 7.0

Plays a mean game of chess, and includes a wealth of user friendly options. Suggests best move, allows setting up of any game situation, saves games, etc. Menu operated.

Publisher: Odesta
Format: Disk
Price: \$69.95 (US)
Availability: Ingram

Computer Baseball

Create and manage any team you like in strategy simulation of the popular sport. Teams Data disks with Statistics Compiler available for 1980 through 1984, \$15 each (not all years for all systems).

Publisher: Strategic Simulations
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Computer Diplomacy

The well-known boardgame, adapted for computer. One to seven players prepare for the Great War, attempting to spread their influence across a graphic display of early 20th-century Europe. Solo or multi-player. Needs 256K RAM.

Publisher: Avalon Hill
Format: Disk
Price: \$50.00 (US)
Availability: Ingram

Conflict in Vietnam

Historically-accurate combat simulation of the Vietnam war, starting from the earliest French involvement and proceeding right up to the present.

Publisher: MicroProse
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Crossword Magic

Allows user to create unique crossword puzzles, then use them over and over. Apple II version \$44.95 US.

Publisher: Mindscape
Format: Disk
Price: \$49.95 (US)
Availability: Beamscope, Ingram

Crusade in Europe

Simulation of combat during World War II, at the time of the Battle of the Bulge.

Publisher: MicroProse
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Decision in the Desert

Wartime combat simulation of North Africa in 1940-1942.

Publisher: MicroProse
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Destroyer Escort

Authentic first-person simulation of destroyer service in World War II. Hunt down enemy subs using realistic control systems. C-64 version available this fall, others to follow shortly.

Publisher: MicroProse
Format: Disk
Price: \$39.95 (US)

Epidemic

Billions of lives are at stake as Earth is infected by deadly alien microbes. Extensive graphics.

Publisher: Strategic Simulations Format: Disk

Price: \$17.48 (US)
Availability: Ingram

Felony!

Successor to Murder by the Dozen, uses similar format. Up to four players or teams try to solve a dozen felony cases ranging from kidnapping to murder. Interrogate suspects, search locations, etc. Clues Notebook contains 700 clues.

Publisher: CBS Software
Format: Disk
Price: \$24.95 (US)
Availability: Ingram

Software

Flight Simulator II

Real-time flight simulation puts you at the controls of a single-engine plane. Panoramic views and full instrumentation displayed onscreen. Includes accurate information for over 20 airports. Many options, including WW I fighter

Publisher: Microsoft Format: Disk Price: \$49.95 (US) **Availability:** Ingram

Flight Simulator Scenery Disks 1-6

Extra scenery backdrops for use with Microsoft/Sublogic Flight Simulator II. Six different area disks available, price shown is per disk. Six-pack set available for \$99.95 US.

Publisher: Sublogic Format: Disk \$19.95 (US) Price: Availability: Ingram

GATO

WW II submarine simulation. Cruise the south seas, try to fulfill various missions, sinking Japanese ships along the way. Shows periscope/instrument display, radar, map views, damage reports, etc. C-64 version \$29.95. Mac version \$49.95 US.

Publisher: Spectrum Holobyte

Format: Disk Price: \$39.95 (US) Availability: Ingram

Gettysburg: The Turning Point

Players keep track of individual artillery, men, ammunitions for each brigade unit. Revised command control rules allow determination of distance from leaders to their units, merging of units. For 1-2 players. IBM version due this fall

Publisher: Strategic Simulations Format: Disk

\$59.95 (US) Price: Availability: Ingram

Incunabula

A game of the rise and fall of kingdoms and tribes. Players begin during the dawn of man and attempt to further their civilization's progress through trading and war. For one to six players. PC or PCjr with 128K RAM.

Publisher: Avalon Hill Format: Disk Price: \$30.00 (US) Availability: Ingram

Let

Follow-up to immensely popular Flight Simulator II. This time you are at the controls of a state-of-the-art jet fighter. Fly missions from land or aircraft carrier, view from cockpit or control tower. Realistic controls.

Publisher: Sublogic Format: Disk \$49.95 (US) Price: Availability: Ingram

Knights of the Desert

Joust with armored tanks during the North African campaign of 1941-1942. An intermediate level tactical simulation

Publisher:

Strategic Simulations

Format: Disk \$39 95 (US) Price. Availability: Ingram

Millionaire

Enter the New York Stock Exchange as a Novice with \$10,000, a range of 15 actual stocks from 5 industry categories as investment possibilities. Buy and sell based on news reports, manage your Portfolio. C-64 version \$29.95, Apple \$49.95 US

Publisher: Blue Chip Format: Disk Price: \$59 95 (US) Availability: Ingram, Radio Shack

Mind Mirror

Electronic self-knowledge software designed by counterculture guru Dr Timothy Leary. User rates a concept on a series of seven-point scales. The program summarizes results as a 'Mind Map', offers 'Life Simulations' play.

Publisher: Electronic Arts Format: Disk \$34.95 (US) Price: Availability: Beamscope, Ingram

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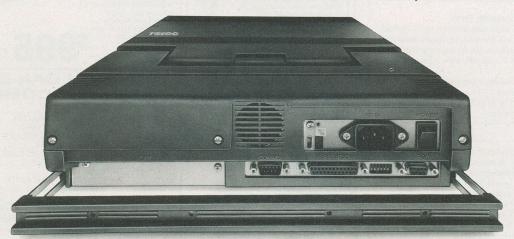
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IBM:

Software

Mystery Master: Murder by the Dozen

Starting with a map of Micropolis, sleuths must unravel a trail of concealed clues, false leads, clever deceptions. Numbered clues are detailed in accompanying Clue Book. Up to 4 players. Twelve cases, 700 clues.

Publisher: CBS Software
Format: Disk
Price: \$24.95 (US)
Availability: Ingram

Operation Market Garden

Recreates the infamous Allied airborne offensive chronicled in the film 'A Bridge Too Far'. Operational-level, strong on tactics. Includes both intermediate and advanced level scenarios.

Publisher: Strategic Simulations Format: Disk

Price: \$49.95 (US) Availability: Ingram

Orbiter

Simulates a flight aboard the Space Shuttle, includes 16 different missions such as deploying a space telescope, retrieveing a satellite, docking with a space station, etc. Fly manually or let onboard computer handle most of the load

Publisher: Spectrum Holobyte

Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Quink

Randomly generates 8 places, objects, or names that may or may not share a common bond. Players must race the clock to eliminate entries that don't fit the association. Six categories, containing over 4000 entries. One or two player.

Publisher: CBS Software
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Racter

Simulated human being with 2800-word vocabulary discusses philosophy, answers questions. Amiga version uses voice to speak aloud.

Publisher: Mindscape
Format: Disk
Price: \$49.95
Availability: Beamscope, Ingram

Ram

Recreate naval clashes of the Peloponnesian War in realtime action. You command the Athenian ships in battle against Spartan and Corinthian galleys. Needs 128K, PC or

Publisher: Avalon Hill
Format: Disk
Price: \$30.00 (US)
Availability: Ingram

Run For the Money

A business game with a space-age theme. Macintosh version \$49.95 US.

Publisher: Scarborough Systems
Format: Disk
Price: \$19.95 (US)
Availability: Ingram

Sargon III

One of the most powerful chess programs for microcomputers, an update of Sargon II. New version plays faster, offers many options such as board set up, retraction of moves, game save, etc. Includes library of famous chess games.

Publisher: Hayden
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Silent Service

Graphic simulation of submarine service. Attack enemy convoys, avoid patrol boats. Choose your own patrol sectors, attack submerged or on the surface, day or night.

Publisher: MicroProse
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Solo Flight

Fun-oriented flight simulator. Includes 3D out the window graphics, full instrumentation, 21 different airports, landing scores, weather and mechanical emergencies.

Publisher: MicroProse
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Squire

Start at age 20, try to retire a millionaire at 40. Invest in stocks, bonds, real estate, commodities, etc. Explore investment strategies, discover which avenues hold the greatest promise for you. Apple II version \$49.95 US.

Publisher: Blue Chip Format: Disk Price: \$59.95 (US) Availability: Ingram

Tellstar

Personal planetarium system, provides a graphic guide to the constellations, planets, sun, moon, start, Halley's Comet, etc. Shows sky quadrants and position of object for given time, date, etc. Performs astronomical calculations.

Publisher: Spectrum Holobyte Format: Disk Price: \$49.95 (US) Availability: Ingram

Tigers in the Snow

Operational level game of Hitler's final desperate assault, the Battle of the Bulge. Introductory level of complexity. **Publisher:** Strategic Simulations

Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Tycoon

Devise flexible strategies, anticipate events, trade in gold, silver, copper, oil, treasury bills, foreign currencies, agricultural commodities. Work from charts, background data. C-64 version \$29.95 US. Apple II version \$49.95 US.

Publisher: Blue Chip Format: Disk Price: \$59.95 (US) Availability: Ingram

Warp Factor, The

Fly through hyperspace as you engage in interstellar battles with starships from five Galactic Empires.

Publisher: Strategic Simulations
Format: Disk

Price: \$39.95 (US)
Availability: Ingram

Wizard of Wall Street

Play the market with a \$50,000 stake. Buy and sell stocks and options for cash or on margin, watch your net worth go up when you make the right moves. Graphics, sound, 3 skill levels and adjustable speed.

Publisher: Broderbund
Format: Disk
Price: \$44.95 (US)
Availability: Beamscope, Ingram

Word Challenge II

Similar to 'Boggle', pits human against computerized opponent LEXX, trying to make as many words as possible from random letters. Includes 26 levels of play, 3 board sizes, 5 scoring options, 95,000 word dictionary. Mac version \$39.95 US.

Publisher: Hayden
Format: Disk
Price: \$19.95 (US)
Availability: Ingram

TECHNICAL PROGRAMMING LANGUAGES

Alice: The Personal Pascal

Complete Pascal programming environment based on syntax-directed editor. Guides uses through fill-in-the-blanks templates. More than 500 screens of on-line help and step-by-step programming instructions. Compatible with standard Pascal.

Publisher: Graham Software
Format: Disk
Price: \$95.00 (US)
Availability: Ingram, Softeam

Artek Ada

Meets all 1983 Defense Department specs except 'tasking'. Includes compiler, full-screen editor, interpreter/ debugger, linker, library manager, A-code disassembler, etc. Produces A-code or machine code. Requires 384K of RAM.

Publisher: Artek
Format: Disk (2)
Price: \$895.00 (US)

Aztec C86

Optimized C language compiler for PC-DOS, MS-DOS, CP/M-86. Includes math, screen, and graphics libraries, plus 8086 assembler, linker, librarian. /PRO upgrade includes library source, debugger, 8087 support, etc, \$250. Many other options.

Publisher: Manx Software Systems
Format: Disk
Price: \$249.00 (US)

IBM₁

Software

BetterBASIC

Improved BASIC, upwardly compatible with BASICA and GWBASIC. Accesses full 640K memory, compiles to intermediate code for 5-6 times the speed of interpreted BASIC. Supports structuring. Runtime system \$250. 8087/80287 module \$99.

Publisher: Format:

Summit Software Technology

Disk

Price:

\$199.00 (US)

CB-80, CB-86

Native code compiler for use with CBASIC language CB-80 for eight-bit systems, \$640.

Publisher:

Digital Research Disk

Format: Price:

\$600.00 (US)

Availability:

Ingram

CBASIC, CBASIC-86

BASIC implementation designed specifically for development of business applications

Publisher:

Digital Research

Format:

Disk

Price:

\$200.00 (US)

Availability:

Ingram

Cross-8

Supports virtually all 8-bit CPUs via loadable instruction tables. Includes utilites for creating and modifying instruction tables, plus tables to support 1802, 3870, 6502, 6801, 6805, 8048, 8051, 8085, 8096, COP400, Z8, and Z80 processors.

Publisher:

Universal Cross-Assemblers

Format:

Disk \$129.95 Price:

dBase C Tools

Set of C language modules emulating dBase data manipulation functions. Allows development of complete standalone dBase-like applications

Publisher:

Ashton Tate

Format:

Disk

Price:

\$89.95 (US)

Availability:

Ingram

dBC III Library

Over 70 C language functions that emulate various features of Ashton-Tate's dBase III database system. Allows virtually all dBase operations to be duplicated from C.

Publisher: Format:

Lattice Disk \$210.00

Price: Availability:

Ingram, Software Commodities

DoubleDOS

An operating environment that allows true multiprogramming under PC-DOS on the IBM and compatibles. Menu operated, uses small memory and time overhead. Displays both processes if two monitors are used, flips displays on single screen

Publisher:

SoftLogic Solutions

Format: Price: Availability:

Disk \$49.95 (US)

Ingram

DR Logo

Version of the LOGO programming language with the customary 'turtle' graphics orientation. Includes its own operating system, editing and debugging tools. Supported by library of Dr Logo Learning Pac tutorial programs. PCjr version \$119.95.

Publisher:

Digital Research Disk

Format: Price:

Availability:

\$149.95 (US) Ingram

Eco-C88, Eco-C+

Small, inexpensive C compiler system. Eco-C88 produces $code \ for \ MS\text{-}DOS \ linker. \ Eco\text{-}C+for \ CP/M \ includes \ SLR$ Systems assembler-linker, \$295 US. Source library \$10 extra, ISAM library \$15 with compiler. Programming and study guides available.

Publisher: Format:

Ecosoft Disk (2)

Price:

\$49.95 (US)

EZ-VU Development Facility

Lets the programmer use minimal coding to develop sophisticated, interactive personal computer applications. Requires EZ-VU Runtime Facility.

Publisher: Format:

IRM Disk \$199 99

IRM

Price: Availability: IBM

EZ-VU Runtime Facility

Provides simple, conversational interface between programmer and an application.

Publisher: Format:

Disk

\$79 99 Price:

Availability:

IBM

GEM Programmer's Toolkit

Complete support kit for creating applications compatible with GEM windowing environment. Includes 500-page manual, extensive document text files, three disks of examples and utilities. Supports Lattice C compiler.

Publisher: Format:

Digital Research

Price:

Hard disk \$500.00 (US)

Graphical File System

Allows storage and retrieval of graphic images in a standard, device-independent format, transfer of 2-D graphics between systems and applications, cut & paste capabilities, etc. Includes bindings for IBM BASIC Compiler, FORTRAN, Lattice C.

Publisher: Format:

IBM Disk

Price: Availability: \$269 99 IBM

Graphical Kernel System

GKS achieves source code compatibility to provide a consistent interface in high-level languages. Any program written to GKS standards will work on any system supporting the standard.

Publisher: Format:

IBM Disk \$439.99 IBM

Price: Availability: **Graphics Development Toolkit**

Aids in creation of hardware device-independent graphics software for the Virtual Device Interface, included in the Toolkit. Includes language bindings for PC DOS, PC BASIC Compiler, FORTRAN, Pascal, Macro Assembler,

IBM

FORTRAN and Lattice C. **Publisher:**

Format: Disk Price: \$599.99 Availability: **IBM**

Guru

Expert system construction environment. Allows either procedural or rule-set programming. Permits creation of systems with up to 3000 rules. Includes KnowledgeMan/2 database, text processor, spreadsheet, telecommunications and graphics

Publisher:

Micro Data Base Systems

Format: Disk

Price:

\$2995.00 (US)

Ingram

Availability:

IBM APL Interpreter

Microcomputer implementation of the interactive business language. High-power array processing functions, etc. Supports full-screen I/O, disk functions, asynch communications, printing. Requires 8087 or 80287 math

coprocessor. **Publisher:**

IBM Disk

Format: Price: \$244 99 Availability: IBM

IBM BASIC Compiler 2.00

High-function compiler. Allows linking of separately compiled BASIC modules with a BASIC main program, gives direct access to DOS commands, supports dynamic numeric arrays limited only by available memory, supports IBM PC Network, TopView

Publisher:

Format:

IBM Disk

Price: \$719 99 Availability: IBM

IBM COBOL Compiler

Version of the popular ANSI 1974 standard business language, with extensions to support color and screen formatting.

Publisher: Format:

Availability:

Price:

IBM Disk \$849.99

IBM

IBM FORTRAN Compiler 2.00

Version of FORTRAN-77. Compiles to native object code, supports 8087 and 80287, up to 640K of memory, double-precision arithmetic, list-directed I/O, etc. Includes object library manager. Links object modules from

IBM Pascal or Assembler Publisher:

IBM Disk

Format: Price: \$499.99 Availability: **IBM**

IBM Macro Assembler 2.00

Includes structured assembler-language preprocessor, library manager, cross-reference facility. Supports 8088, 80286, 8087 and 80287 processors. **Publisher:** IBM

Format:

Price:

Disk \$274.99

Availability: **IBM** IBM₁

Software

IBM Pascal Compiler 2.00

Provides system development environment, produces efficient object code for large programs. Supports 8087 and 80287 math coprocessors, double-precision arithmetic, 4byte integer type, overlays, full memory model, IBM PC Network, TopView

Publisher: IBM Format: Disk \$499.99 Price: Availability: IBM

IBM PC C Compiler

DOS-based compiler, creates small, fast modules, supports linked programs and data objects up to the amount of installed memory. Includes MAKE utility, floating point support, 4 memory models, etc.

Publisher: **IBM** Format: Disk \$719.99 Price: Availability: IBM

IBM PC Professional FORTRAN

Full-function ANSI-77 compiler and library. Includes IEEE standard floating point support for 8087 and 80287 coprocessors, automatic object code optimization at compile time, program and data larger than 64K, etc.

Publisher: **IBM** Disk Format: \$849.99 Price: Availability: **IBM**

IBM Professional Debug Facility

Consists of single disk with 2 utilities: Resident Debug Tool and Disk Repair. Also includes Non-Maskable Interrupt card.

Publisher: IBM Format: Disk Price: \$224.99 Availability: **IBM**

Introducing-C

An interactive implementation of the Clanguage, designed for ease of learning. Interpreted, gives immediate feedback without compile or link stages. Includes full-screen editor, error diagnostics, trace facilities, function library, demos

Publisher: Computer Innovations Format: Disk \$125.00 (US) Price:

Lattice C Compiler

Complete C language system, includes UNIX I/O function libraries, disassembler, etc. Produces relocatable code for linking by any standard MS-DOS linker. Price includes C-Food Smorgasbord.

Publisher: Lattice Format: Disk \$500.00 (US) Price: Availability: Ingram, Software Commodities

Level II COBOL

Supports ANSI '74 standard implementation, runs mainframe programs with minimal source code modification. **Publisher:**

Digital Research Format: Disk \$700.00 (US) Price: Availability: Ingram

Logitech Modula-2

Complete professional Modula-2 compiler, linker and module library. With 8087 support \$129. With 512K and 8087 support \$189. Run-time debugger \$69. Syntaxchecking editor \$59. Utilities \$49. Source code for runtime and modules \$179

Publisher: Logitech Inc Format: Disk \$89.00 (US) Price:

LOGO, by LOGO Computer Systems

Interactive language that helps students of any age or skill level to program while studying computer concepts and logical, mathematical and geometric relationships. Allows advanced graphics, file manipulations, assembly language

Publisher: LOGO Computer Systems Format: Disk \$234.99 Price: **Availability: IBM**

Microsoft FORTRAN Compiler

A subset of the complete FORTRAN-77 language. Includes meta-commands to enhance structuring, setting source formats, etc. Offers 8087 support. Links with assembly language or Microsoft Pascal modules. Mac version \$295 US.

Publisher: Microsoft Format: Disk \$449.95 Price:

Availability: Ingram, Radio Shack

Microsoft Macro Assembler 4.0

Flexible assembly-language development system for either eight or sixteen bit systems. Allows conditional assembly blocks nested up to 255 levels deep. Produces fully relocatable machine code.

Publisher: Microsoft Format: Disk \$150.00 (US) Price: Availability: Ingram, Radio Shack

Microsoft Pascal Compiler

A version of the structured Pascal language. Generates native machine code, supports 8087 co-processor chip if available, provides 8087 emulation otherwise. Needs 160K RAM.

Publisher: Microsoft Format: Disk (2) \$399.95 Price: Availability: Radio Shack

Pascal/MT +, MT + 86

Implementation of ISO standard Pascal, compiles directly to object code.

Publisher: Digital Research Format: Disk \$400.00 (US) Price: Availability: Ingram

PC Logo

A highly-rated implementation of the educational programming language. Includes utilities disk, text editor. Supports 8087 math, function keys. Includes utilities and sample programs. Also available in French, German & Spanish versions

Publisher: Harvard Associates Format: Disk \$149.95 (US) Price: Availability: Ingram

PL/1-86

Based on ANSI subset G, produces relocatable native code. Upwardly compatible with full PL/1. Includes programmer's utilities.

Publisher: Digital Research Format: Disk \$750.00 (US) Price: Availability: Ingram

Plotting System

Set of routines and subroutines that simplify creation of charts and charting programs. May be used on a variety of I/O devices.

Publisher: IBM Format: Disk Price: \$334.99 Availability: **IBM**

Pro Fortran

Complete implementation of ANSI Fortran 77. Nativecode compiler with numerous options. Works on Z80 systems with 48K and two 100K-minimum drives. Includes linker, libraries, librarian, X-ref utility, sample programs

Publisher: Prospero Software Format: Disk \$149.00 (US) Price:

Pro Pascal

Complete implementation of ANSI 770X3.97 Class A (no errors) standard, with many extensions. Includes linker, libraries, librarian, X-ref program, smaple programs, 200page manual.

Publisher:

Prospero Software Format: \$149.00 (US) Price:

ONX Basic Compiler

Features structured syntax, ability to call C library routines, terminal independent full-screen I/O, multi-line functions with parameter lists, composite record-type variables, etc. Supports QNX operating system.

Publisher: Quantum Format: Disk Price: \$350.00 Availability: **Ouantum**

QNX C Compiler

Full K&R C implementations. Library conforms to /usr/ group standards, with close 300 routines included. Supports 8087, terminals, QNX and UNIX operating environments. Available together with QNX operating system, \$750 for single station.

Publisher: **Ouantum** Format: Hard disk Price: \$350.00 Availability: **Ouantum**

RM/BASIC

Mainframe-style BASIC for the PC, with many features common to System/34 and larger IBM systems. Generates source, object code. Provides relative, sequential, keyed file types. Includes business graphics, 15-digit arithmetic,

Publisher: Ryan-McFarland Format: Disk (2) \$600.00 (US) Price: Availability: Ingram

IBM:

Software

RM/COBOL

Top-selling PC implementation of ANSI 74 COBOL. Multi-user and LAN support. Runtime module \$300.

Publisher: Ryan-McFarland
Format: Disk (2)
Price: \$1250.00 (US)
Availability: Ingram

RM/FORTRAN

Full, fast FORTRAN-77 with VAX, VS and F-66 extensions. No limits on program and array sizes. Includes interactive symbolic debugger. Requires math coprocessor chip.

Publisher: Ryan-McFarland
Format: Disk (2)
Price: \$595.00 (US)
Availability: Ingram

TDI Pascal

Complete UCSD Pascal implementation. Includes UCSD screen editor, filer and other utilities. UCSD Tool Kit and assembler \$119.95. Other UCSD packages also available.

Publisher: TDI
Format: Disk (2)
Price: \$119.95
Availability: STari

Thoroughbred Business BASIC

Geared to the small multiuser business computer. Runs under UNIX, XENIX, MS-DOS or Thoroughbred-OS, compatible with standard MAI BASIC Four Business BASIC. Supported by Concept Omega business applications. UNIX version \$695.

Publisher: Concept Omega Format: Disk Price: \$495.00 (US) Availability: Ingram

TopView Programmer's Toolkit

Support kit for creating TopView applications. Includes 570-page manual and two disks of sample programs. Provides guidelines, utilities and system interfaces for creating applications to take advantage of TopView capabilities.

Publisher: IBM
Format: Hard disk
Price: \$574.99
Availability: IBM

True BASIC

Upgraded BASIC interpreter from the authors of the original BASIC, following proposed ANSI standard. Includes features such as SELECT CASE, nested IF-THEN-ELSE-IF and DO-LOOP structures, matrix algebra, graphics, windows, editor, etc.

Publisher: True BASIC
Format: Disk
Price: \$149.90 (US)
Availability: Ingram

True BASIC Programming Libraries

Modules include Developer's Toolkit, PC BASIC Converter, Communications Support, Forms Management, Btrieve Interface, Hercules Graphics support, Sorting & Searching, String operations, 3-D graphics. Price is per library.

Publisher: True BASIC
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

True BASIC Runtime Library

Contains everything needed to distribute software developed using the True BASIC Language System. Includes unlimited sales and distribution license.

Price: Sound (US)
Availability: True BASIC
Sound (US)
Ingram

Turbo Database Toolbox

Learn how to program database applications while creating your own working system. Includes source code for a working database. Demonstrates data access using B+trees, sorting using Quicksort algorithm.

Publisher: Borland International Format: Disk Price: \$54.95 (US) Availability: Ingram

Turbo Editor Toolbox

Lets you build your own word processor using Turbo Pascal (not included). Includes complete ready-to-compile source code for full-featured editor. A 200-page manual explains how to customize.

Publisher: Borland International Format: Disk Price: \$69.95 (US) Availability: Ingram

Turbo Extender

Set of extensions that allow Turbo Pascal programs to use full 640K memory of the IBM PC. Utility modules allow use of large data structures, disk caching. Includes make utility, complete source code, etc. Needs Turbo Pascal

Publisher: TurboPower Software
Format: Disk
Price: \$85.00 (US)

Turbo GameWorks

Includes source code and documentation for several games, including Chess, Bridge and Go-Moku. Lets user learn about game construction, acts as a resource for game building.

Publisher: Borland International
Format: Disk
Price: \$69.95 (US)
Availability: Ingram

Turbo Graphix Toolbox

A complete set of graphics support routines to extend the capabilities of Turbo Pascal. Includes window management, charts and graphs, file handling, animation, etc. Complete with source code.

Publisher: Borland International Format: Disk Price: \$54.95 (US) Availability: Ingram

Turbo Pascal

Includes basic Pascal implementation plus features such as PC graphics, sound. Editor, compiler, co-resident, menudriven. Editor commands default to WordStar emulation. With 8087 support, \$109.90. With 8087 and BCD support, \$124.95.

Publisher: Borland International Format: Disk Price: \$69.95 (US) Availability: Ingram

Turbo Prolog

Logic-based artificial intelligence language. Includes fullscreen editor, extensive reference manual, tutorial, GeoBase US geography database example program with source code. Compiles to native code, linkable object modules.

Publisher: Borland
Format: Disk
Price: \$99.95 (US)
Availability: Ingram

TurboPower Programmer's Utilities

Collection of 9 programs: source code analyzer, execution timer, execution profiler, listing printer, command line parser/repeater, GREP-type pattern replacer, difference finder, file finder, super directory. With source code, \$95 LIS

Publisher: TurboPower Software Format: Disk Price: \$55.00 (US)

UCSD Pascal

Complete implementation of standard Pascal language. Includes text editor, on-line tutorial, 8087 coprocessor support, BCD support, etc.

Publisher: Pecan Software Systems Inc Format: Disk

Price: \$79.95 (US)

Windows Software Development Kit Complete support package for creating applications compatible with Microsoft Windows operating environment. Includes 975-page manual, eight disks with examples and utilities and complete Windows environment. Based pri-

marily on C language.

Publisher: Microsoft Corp
Format: Hard disk
Price: \$500.00 (US)

WYLBUR/pc Compiler

Compiler for the WYLBUR/pc programming language, suited for data entry, text retrieval, database update & retrieval, file transfer, report generation, graphics, comunications, etc.

Publisher: Comtek Datasystems
Format: Disk
Price: n/a

XENIX Development System

Includes optimized C compiler with support for 3 memory models, the C shell, 80286 and 8088 assemblers with support for 8087 and 80287 math coprocessors, interactive debugger, language translators and source code management tools

Publisher: IBM
Format: Disk
Price: \$649.99
Availability: IBM

ZBASIC

Enhanced BASIC compiler, creates standalone applications. Includes features such as advanced math package, graphics support, etc. Mac version has windowing, mouse handling, type font support, Toolbox access, etc. Includes editor, help. **Publisher:** Zedcor

Publisher: Zedcor
Format: Disk
Price: \$89.95 (US)

OPERATING SYSTEMS

FastStart DOS 2.0/2.1

Learn DOS the easy way. An onscreen window provides help for the user while they actually use DOS.

Publisher: McGraw-Hill Training Systems

Format: Disk

Price: \$59.95 (US)

IBM DOS 3.1

Current version of IBM PC-DOS system. Supports all PC models and disk formats, includes DISKCOPY, DEBUG and many other utilities. Also supports hardware and software for IBM PC Network.

Publisher: Format:

Availability:

Price:

IBM Disk \$129.99 **IBM**

ONX Operating System

Multi-user, multi-tasking networking operating system. Integrated LAN support. Multiple applications in windows, including PC-DOS. Reads, writes DOS files. Includes kernel, utilities, screen editor. Four-station system \$1080.

Publisher: Format:

Price:

Quantum Disk \$540.00

Availability: Ouantum, EMJ

XENIX 1.0

Multiuser, multitasking operating system for IBM PC AT. An enhanced adaptation of UNIX System III. Supports single and multi-user configurations, uses up to 3M of RAM, 80287 coprocessor. Includes utility for file transfer to and from DOS.

Publisher: IRM Format: Disk

\$569.99 Price: Availability: IBM

GRODATA SYSTEMS

- On Line interactive with multi terminal capability
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- Any input automatically updates all relevant

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PROGRAMMES

The University of Toronto's School of Continuing Studies offers over 30 non-degree courses in computer applications. Our computer programme courses range from an introduction to the IBM PC to practical applications such as Lotus 1-2-3 or DBASE and up to advanced user courses. Unique courses this fall are:

Advanced Programming in C (lecture)

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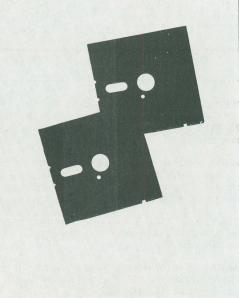
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Volume 1

*C-Write An earlier, compact version of this vell-known word processor - perfect for proram editing. PC-Write comes extremely close o equalling the power of commercial word rocessors costing several hundred dollars. Vith full screen editing, sophisticated cursor ovement, PC-Write also boasts features such a user-definable help screens and a 'printer iler file' which can be customized to work ith virtually any printer.

===PC-TALK III COMMAND SUMMARY===

print screen contents contin. printout (or 'PgUp) fPrtSc = PrtSc = Alt-R = Receive a file (or PgDn) Transmit a file (or PgUp) pacing '=p' binary '=b' Alt-T = transmit: pacing '=p' ran/recv: XMODEM '=x' Alt-V = View file Alt-Y = delete Alt-D = Dialing directory Alt-Q = redial last number Alt-K = set/clear Func keys (Alt-J) Alt-= set/clear temp Alt keys Alt-E = Echo toggle Alt-M = Message Alt-S = Screendump Alt-C = Clearsc Alt-P = communications Parameters Alt-F = set program deFaults Alt-L = change Logged drive Alt-W = set margin Width alarm elapsed time/current call Alt-Z = Alt-X = eXit to DOS trl-End = send sustained Break signal **SOLFE** is a small BASIC program that plays baroque music. While it has little practical use, it's a lot of fun. It's also a fabulous tutorial on how to use BASICA's sound statements.

PC-TALK Telecommunications packages for the IBM PC are typically intricate, powerful and huge. This one is no exception. It has menus for everything and allows full control of all parameters. It does file transfers in both ASCII dump and MODEM7/XMODEM protocols. And, it comes with a large documentation file.

SD This sorted directory produces displays which are a lot more readable that those spewed out by typing DIR.

FORTH This is a small FORTH, written in Microsoft BASIC. A good tool for teaching the ideas and concepts of this esoteric, but useful language.

LIFE This is an implementation of the classic ecology game written in 8088 assembler code. While you may grow tired of watching the cells chewing on each other, the source code provides a good example of how to write assembler applications.

MAGDALEN This is another BASIC music program. We couldn't decide which of the two we liked better, so we wound up putting both of them on the disk.

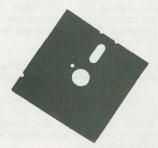
CASHACC is a fairly sophisticated cash acquisition and limited accounting package written in BASIC. It isn't exactly BPI, but its a lot less expensive and suitable for use in many small business applications.

DATAFILE is a simple data base manager, written in Microsoft BASIC.

UNWS WordStar has an unusual propensity for setting the high order bits on some of the characters in the files it creates. Here's a utility to strip the bits and 'unWordStar' the text. The assembler source code is also provided.

HOST2 This program includes BASIC source and documentation files to allow users with SmartModems to access their PC's remotely.

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Volume 2

EEP is a disk utility which virtually replaces DOS Copy command. It lets you COPY, N, TYPE and DEL files quickly and easily m a simple menu.

rldmap is a sophisticated graphics program ch draws a very detailed map of the world. an display its wares on your monitor, or d them out to a dot-matrix printer.

IITRA plays Anitra's Dance by Edvard leg. A beautiful addition to your computer sic collection.

AMDISK is one of the most useful utilities u'll ever plug into your PC. Once installed, it rates a virtual drive in memory on your PC. es can be copied to the RAM-disk and accised in less time than real drives take to turn their LEDs.

ien plays a bizarre adventure game and will id you into some of the most exotic spots in universe. It comes with a massive data file r an adventure that you won't get tired of 'til dragons come home for the evening.

REAKOUT plays a PC version of the popular me. It will accept input from either a joystick the keyboard. The graphics are good and the ion is adjustable from a beginner's level ht up to 'fast and nasty'.

PRTSC replaces the internal PC screen dump code with something more suited to reality. It allows one to hit the PrtSc* key and then select the print quality from a menu. It supports a number of popular printers.

UTIL is a collection system utilities which can be accessed from a single menu. Among its many talents are a sorted directory, keyboard redefinition and the facility for scrolling up and down through a text file.

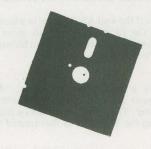
POPULAR	MUSICAL	MISCELLANEOUS		
A Downtown	E Cabaret	J Moonlight Sonata		
B Garota de Ipanema	F Impossible Dream	K second movement		
C Satisfaction	G Return Main Menu	L third movement		
D Sounds of Silence	H Sunrise, Sunset	M Take Five		

Jukebox represents yet another PC music system. This one comes with a host of songs to play and some really electric graphics.

FOS is a well designed personal finance manager which will do much to help you tame your cheque books.

ASMGEN is one of the best text disassemblers we've come across. It takes any executable COM or EXE file and produces an assembler listing. It's surprisingly good at distinguishing between code and embedded data or text.

STRUCT will appeal to the rabid programmer in everyone. It enables MASM to be used to assemble a higher level language. Included also is a test file to illustrate the syntax.



FIXWS is a simple utility which modifies WordStar files so that they can be used by programs which work with ordinary ASCII files.

WRT DOS 2.0 allows for each file to have a 'read only' flag, but it lacks a way of manipulating them. This pair of utilities allows you to set and unset this flag, protecting important files from accidental erasure.

BROWSE is a timesaving program which provides a useful alternative to the DOS 'TYPE' command. BROWSE allows you to easily scroll up and down through text files, saving you the effort of running your word processor just to get a quick look at a text file.

CAT If the DIR display is too dull for your taste, CAT may be just what you need. It will tell you everything you could possibly want to know about the files on your disks.

CGCLOCK is a simple little program which displays the running time in the upper right hand corner of your screen. In addition, the program has lots of display options and works with the colour graphics card.

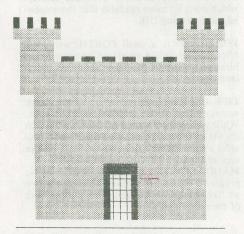
CURSOR A tiny twenty-four byte program which displays a large cursor on your monitor.

CMP This program does a very elaborate comparison of two files and reports their differences. It can for example, spot corrupted files and may prove useful when dealing with files created by redirection.

JUMPJOE A bit like "Miner 2049'er", this game is certain to damage your mind. You get to be the janitor of a space station and must deal with berserk robots and other weirdness. It's a hoot!

CASTLE Wander through a deserted castle collecting treasures... but mind you don't get killed by the nasties. A solution is included should frustration set in.

78INT This is a small BASIC program to calculate interest using the rule of seventy-eight.



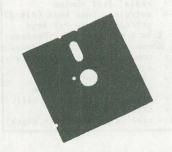
MOON is one of the nicest lunar lander games we've come across. This version uses high resolution graphics and startling sound effects to hurl you to your doom in style.

PERTCHT is a BASIC program which print PERT charts. It should interest anyone involved in project management and scheduling.

DATNOIDS is one of the strangest games eve put on a disk. In fact, mere words don't serv to describe it: you'll have to try it for yourself

NUK-NY This is one of the nastiest bits of soft ware we've ever seen. It produces a full colo high resolution simulation of a nuclear attacl on New York City.

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Volume 4

BACKSCROLL Perhaps one of the cleverest DOS utilities, BACKSCROLL hooks itself into the PC and buffers whatever scrolls by. Using a well-thought out command structure, it allows one to scroll back and forth through text which would normally have scrolled off the screen into oblivion.

BIGCAL is a BASIC program which performs calculations on extremely large numbers. Using floating point form instead of scientific notation, very accurate calculations can be made.

BUGS is an off the wall ASCII game in which a player uses the cursor pad keys to move a 'nuclear fly swatter' around the screen blowing up a long crawling bug.

DEFRAG is a utility that lets you "defragment" your disks to make your applications run faster. The utility reorganizes a disk, connecting up the fragments of files created by DOS.

DOSEDIT is one of the most useful DOS utilities available. it enhances the command line facility of MS-DOS by creating a command stack. Instead of merely being able to recall a command with the F3 key, DOSEDIT lets you use the cursor arrow keys to scroll through a whole stack of previously entered commands, re-executing the ones you need.

DUmp is a utility program designed to produce Hex dumps of object files. Useful in its own right, the program also serves as a good example of how to use DOS disk service calls. The ASM file is also included.

FREE is a tiny file which tells you how much space is left on a disk... without having to view an entire directory listing. Its especially handy for hard disk systems.

KBFIX displays the status of the keyboard lock keys on the screen and expands the size of the keyboard character buffer to avoid losing bytes

LABEL changes the labels on disk drive volumes. It's a simple utility, but useful if you use volume labels to keep track of your disks.

MEMBRAIN is the most sophisticated RAM disk program we've seen yet. It lets users install variable sized disks and provides control over several other parameters.

NUSQ is a file un-squeezer. Its a useful utility for people who download compressed files form bulletin board systems.

SPACE INVADERS A fast variation of this popular arcade game. the graphics are superb.

SP is a clever print spooler which lets yo 'print' files into a RAM buffer. The PC the sends the file to the printer at its leisure, leavin the user free to move on to other tasks usin the computer.

SPEED is a simple program which change some of the PC's floppy disk parameters an effectively speeds up disk accesses for some applications.

VDEL is a multiple deletion program tha queries the user prior to erasing each entry Similar to MOVE, but much smaller.

WHEREIS will locate a file on a disk even if it lurks in a subdirectory. Most useful on hard disk systems.

WIZARDS is an adventure game in the classic style, except that it ranks as one of the most sarcastic programs in creation. The program is vast... you can wander about its darkened corridors for hours.

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Also Included: CRYPTO, CLOCK, LIST, MONOCLOK, MOVE, NEWBELL, PAR-CHK, PURGEDUP, PX, QS and SDIR.

Volume 5

AREACODE is a useful tool if you use the elephone a lot. Give it an area code and it will natch it with the city in which the code is used.

D in another sorted directory program. This me emulates the CP/M style D, which is irguably more useful for most applications.

RACTALS An amazing implementation of he Mandlebrot Microscope, which generates mearthly images on your screen.

HIDE is a set of utilities which let you create, inter and remove invisible DOS directories. This allows you to set up a hard drive system with secure areas which can only be used by people who know about them.

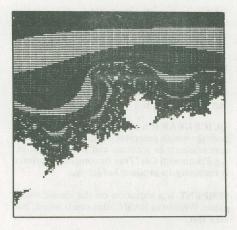
LAR is a library utility that allows you to conatenate several small files into a library to save on disk overhead. Individual files can be exracted as they are needed.

MAIL1 is a mailing label utility written in BASIC.

MORERAM This is an assembler program. You need MASM and LINK to make it work. It lets you alter the memory setting on the PC's motherboard to enable it to use more than 540K RAM. It will even let you set the switch

settings to 64K to speed up disk boots and then change the RAM setting after bootup.

MORTGAGE generates amortization charts.



MXSET lets you control the parameters of Epson printers form the DOS command line. It's a lot easier than LPRINTing characters from BASIC every time you want to change print modes.

NUSQ unsqueezes files that have been previously compressed to save space. Should be of primary interest to bulletin board users.

PARCHK is an assembler program which requires MASM and LINK to work. It installs a trap for parity errors in your computer. A vital aid to help locate suspect RAM chips.

VDEL is a Delete with Verify program. You could type VDEL *.BAK and it would show them name of every .BAK file in the current directory and ask you if you want it deleted.

WHEREIS finds files in a complex hard disk system.

ZAXXONPC This is an incredible implementation of one of the most popular micro games ever created.

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Volume 6

•DEMON is one of the most interesting variaons on Pac-Man in the known universe. Inead of simply looking at a map of a maze, its program shows you a three dimensional lew of it. You wander through endless cordors, munching food pellets or granola ars... your choice... and avoiding the deadly

DU was one of the most powerful CP/M-based lisk utilities ever created. This version for the C captures much of its power and flexibility. t allows you to see what the tracks and sectors on your disks look like, recover erased or lamaged files, and meddle with the system racks.

General Ledger This is a complete general edger accounting program. Written in BASIC, the program possesses most of the features found in commercial packages. An enormous documentation file is also included.

PC-CHESS is a slick chess program which makes good use of the PC's colour graphics abilities and boasts a running chess clock.

RAMDISK is the assembler source code for a nemory disk program. If you've always wanted to know how these things work, or have a secret desire to write your own variation of this useful utility, here's your chance.

VFILER is a file management utility which lets you view files in a directory and allows you to COPY, TYPE and even run programs... in short, it does almost everything DOS does but it's user-friendly.

QMODEM is unquestionably the best telecommunications package in existence. The most recent version of it is replete with windowing, multiple protocols, definable function keys. And the code is unspeakably well debugged.

ARC is a sophisticated file archiving program which stores several files in single library files. As an added bonus, ARC applies one of four data compression techniques to each file in order to optimize disk space.

ZAPLOAD is a utility for programers to handle Intel standard HEX files. Very fast and well documented.

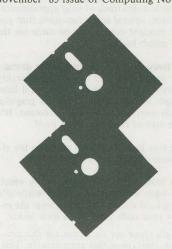
SOPWITH Using superb graphics, SOPWITH lets you pilot a World War I biplane on dangerous bombing missions.

JSB Another BASIC music program for your collection. This one plays a soothing sonata.

STAR is one of a growing breed of small... somewhat silly... novelty programs. This one, as you might guess, draws stars.

SURFACE demonstrates the complexity of the "hat" function by graphing it on a monitor screen.

OP is the operator program from the November '85 issue of Computing Now!



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BLACKJACK is a BASIC implementation of this popular card game. It's both interesting to play and enlightening to dismantle. It can, of course, be easily listed so you can see how it works.

EDSCR is a screen editor which can be used with virtually any programming language from assembler to dBase III. The program lets you 'paint' PC screens with block graphics and saves them as .DAT files which can be easily adapted to work in most languages. An example screen is included.

FK allows you to make the function keys of your PC do more useful things under DOS. They can be redefined to execute commonly used commands and command sequences.

FXMASTER is a printer program for the popular Epson FX Series and compatible printers. It uses a full screen menu to enable you to easily change printer settings and modes.

INDEX allows you to generate indexes from WordStar documents... or text files from any other text editor. It's an invaluable writer's tool.

KEYCLICK is a memory co-resident program which will make your keys click. Small and easily included in an AUTOEXEC file, KEYCLICK solves many problems associated with clone keyboards.

PCBW is a small utility which makes colour screen displays show up in monochrome video. Great for users with colour graphics cards and monochrome monitors.

PINBALL is a pinball simulation that is easily worth the cost of this disk all by itself. The game plays much like a real pinball machine... but its hard to tilt.

QUICKGRAF is a powerful business graphics package which generates complex bar, line and scatter charts in medium and high resolution. An Epson with GrafTrax or compatible printer is necessary to produce hardcopy.

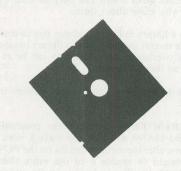
SERPENT is a variation on the classic snake game. Written in BASIC, this one is weird, but very fast.

SHOWCLK is yet another clock program... its the smallest one yet, and it beeps to chime the hour.

VTREE is a graphic TREE program that shows you how the subdirectories are set up on you disk... in a fashion more easily understood than the MS-DOS TREE utility.

WORLD is a remarkable program which incorporates a world map. It allows you to zoom it on specific areas of the globe, locate majocities and perform a number of useful calculation. It also has a feature for tracking hur ricanes... tracked any good hurricanes lately?

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Volume &

Load-Us allows users of the popular Lotus 1-2-3 and Symphony programs to run them on a hard drive. This preboot program does not "crack" Lotus's copy protection scheme, but it does help legitimate users overcome the inconvenience of keeping a "key" disk in a floppy drive while running Lotus or Symphony on a hard drive.

DDCal is a very clever perpetual calendar and desk diary. It keeps track of your appointments and performs several other functions that you probably thought could only be done on the backs of match books.

PC-Key Draw is a remarkable public domain paintbox program which compares favorably with many commercial applications. It'll handle multiple screen images, business graphics and superb computer art - all in full colour. It's worth the cost of this disk all by itself.

CPU is a tiny program which tells you the effective speed of your system.

Xray is a remarkable co-resident utility which monitors what a program is doing while it's busy doing it. It allows you to interrupt the execution of your code and have a look inside.

Game - well, there are no words for this program, or, at least, none that are printable. This game is a bit rude - depending on just how weird your mind is, it can get pretty bizarre. This program does use some suggestive language, and we recommend that young or sensitive users not boot it.

Tune is a very small music generator which makes noises from within batch files. It's useful to see where things are in a complex process.

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Chasm, or cheap assembler, is just the thing if you want to get into assembly language programming but don't want to spring for the Microsoft macro assembler package. It's reasonably fast, not too huge - it'll run in as little as sixty-four kilobytes - and, above all, it's cheap.

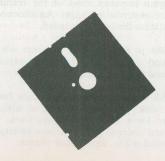
Getdir is a resident directory utility. It allow you to see what files are on your disks, even i you're in the middle of doing something else.

CopyPC, not to be confused with the commercial Copy II PC, is a quick disk backup utility

Lookit is a full screen browsing program whic lets you scroll forward and backwards throug text files - sort of like a tiny word processo with no editing features.

Syslock is a security device for hard disk users By running this utility on your XT or compatible, access to your computer will only be granted to users with a valid password.

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Volume 9

Small C If you've ever wanted to try writing programs in the C language, this compiler will fascinate you. It's a restricted implementation of C, producing code which is compatible with Microsoft's MASM and LINK programs you'll need these to get it going.

Map is an interesting little utility which will check how DOS is situated in the memory of your computer and tell you a number of things about it. It's a useful programming tool, especially helpful if you're debugging software which interacts directly with DOS.

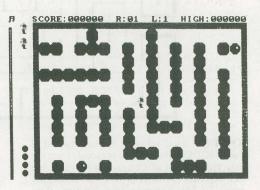
Note is the source file for the memory resident note pad which appeared in the March 1986 edition of Computing Now! It requires MASM and LINK to use. It will create a resident memo page that you can call up from within any application.

Pango is one of the wildest games we've come across for the PC. While its premise is a bit improbable, it's fast and *weird* - hours of fun.

PC-Spell is a spelling checker written in BASIC. Despite its pedestrian sounding origins, it's fast, accurate and easy to use. It can be listed if you want to see how it works, and comes with a large dictionary file and a utility to assist you in customizing it.

Peacock is a memory resident program which allows you to change the colours of your screen with alternate function keys. It's useful, for example, if you run software which insists on using eye-straining screen colours.

Recover is a utility which assists you in getting data back from damaged files. It lets you look at your files one sector at a time in order to put the pieces back together.



First Time Advertised

SDB is a small relational database. It isn't dBASE III, but it also doesn't cost quite as much. It's still pretty powerful and is eminently suitable for many business applications. It features on line help.

Tally is a program which accurately counts the number of characters, words and lines in a file -all within your lifetime.

Xeno edits the tracks and sectors of your disks in a user friendly format - or, at least, one that doesn't lunge for your throat every time you boot it. You can use it to explore DOS, fix trashed disks, unerase files and do all the other low level magic that sector editors are renowned for.

Only \$19.95

Volume 10

Monopoly is the first working implementation of the classic board game that we've come across - and we've had several that bombed pretty colourfully. This one is great, though, with fast and occasionally sarcastic play, a graphic board display and pretty good sound effects.

D20 is the latest version of Steve's sorted directory program. This one uses DOS two calls and handles subdirectories.

Edit is a lightning fast full screen editor, ideal for editing program source files, dBASE stuff or other ASCII phenomena.

Banner takes mere text and prints it sideways on your printer - in gargantuan block letters that can be read from miles away if you have a good set of binoculars. It's not the sort of thing that you'd want to publish a book with, but sign makers will love it.

Mortgage is another utility to help you understand just what you've gotten yourself into. Its one of the nicest mortgage programs we've seen so far - lifelong debt and ruination has never been so well formatted.

Quick speeds up your PC quite a bit. It hooks into the video and makes it run a great deal faster, eliminating at least some of the glacial slowness that makes an IBM what it is.

JULY 87, 1986. MORTGAGE LEDGER SCHEDULE PROGRAM

ENTER THE APPROPRIATE INFORMATION AS REQUESTED

THE PRINCIPAL AMOUNT IS \$ 89,888.88
THE RATE OF INTEREST IS \$ 12,486%
THE INTEREST IS TO BE COMPOUNDED SEMI-ANNUALLY
THE AMORTIZATION PERIOD WILL BE 18 YEARS
THE STARTING DATE IS JULY 87, 1986.
THE FIRST PAYMENT IS DUE ON AUGUST 87, 1986.
THE MONTHLY PAYMENTS ARE TO BE COMPUTED
THE MUMBER PRINTED WILL BE 128 PAYMENTS

IS THE ABOVE ALL CORRECT (Y OR N) : [Y]

Speech is a rather remarkable little germ of code. It talks through the PC's internal squeaker speaker. The voice isn't exactly human, but it's understandable on most machines. This is an interesting bit of work, one that can be accessed from within other programs to create talking applications.

PC-AR is an accounts receivable package for the PC. While not the equal of some of the commercial software that handles this function, it will take care of the records for a small or medium sized business quite well.



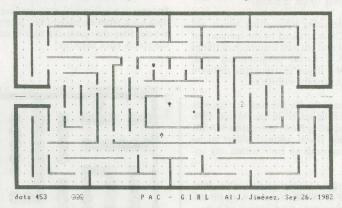
Pac Girl is, predictably, a variation on the almost mythical Pacman game. This one moves fast, and plays much like the arcade version.

Menu lets you create a menu-driven treestrctured environment that is friendlier and more manageable than is DOS. It's ideal creating interactive systems for non-technichal users.

Z80MU is one of the most brilliant pieces of software we've ever encountered - free or not. It actually emulates a Z80-based computer running CP/M on the PC with no additional hardware - you don't even need a V20. It will run almost all CP/M software, including old favourites like WordStar and dBase. However, Z80MU also includes features lacking in both C/PM and MS-DOS operating systems.

SERIO is the assembler file from the July edition of Computing Now! that implements an interupt-driven terminal in higher level languages such as C. It's also suitable for use with compiled BASIC. Both MASM and Link are required to use SERIO.

Breakdown is a peculiar program which takes meaningful text, analyzes it and generates meaningless, but profound-sounding prose from it. If you've been wondering if your coworkers *really* read your office memos and reports, try filtering your prose through this program. The effects will be astounding. **GRABIT** is the screen grab program from the July 1986 edition of Computing Now!. It will make a useable text file from the contents of ones screen at the touch of a key. MASM are Link are required.



XMODEM is a C language implementation of the XMODEM file transfer protocol, from the July 1986 edition of Computing Now!. It can be integrated into other programs to allow easy access to telecommunications facilities. This code requires SERIO (see above) and version three Lattice C.

Only \$19.95

Volume 12

CV is a small utility for changing the volume name on disks. Since most of us never bother to specify volume names when formatting disks, this six hundred byte program provides a second chance.

Breakout Box is an assembly language program that hides in memory and shows you what your serial ports are doing. It's a valuable trouble-shooting utility for pin pointing serial printer and modem problems.

Icon Maker allows you to generate sophisticated bit-mapped images. Its' easy to use and extremely colourful, producing data that can be incorporated into other programs.

Shell is another DOS menu program. This one is very fast, free of 'snow', and provides easy access to virtually all DOS features.

Striker is an experience. It's a brilliantly written helicopter game in the style of Choplifter, complete with professional high resolution graphics and running spies. This is one of the best public domain games we've ever encountered.

Ramset is a RAM expansion program from the July 1986 edition of Computing Now!. It allows you exceed the PC's 640K memory limit. Ramset also lets you bypass the PC's time-consuming memory check.

Trap is the high-resolution Gemini patch program from the May edition of Computing Now!. It makes the Gemini 10x suitable for use with Personal Composer, but is easily modified

to fix most bit-mapped printing problems. MASM and Link are required to assemble the program.



Almost Free PC Software Volume 12



Volume 14

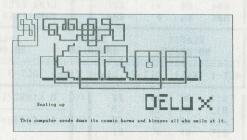
Cut and Paste is a memory resident program that allows you to grab text from the screen of any application and paste it into any other application that accepts characters for input. You could, for example, copy part of a Lotus spreadsheet and paste it into a WordStar document.

INT13 will help you unravel the copy protection schemes of your software so you can make archive copies - just in case the cat takes a fancy to your masters. It prints a log of direct disk accesses and where they're called from so you can check out the code that's going after specific tracks, the heart of most protection systems. Includes the assembler source code.

PMAP tells you what's living in the memory of your system - and where. It will help you to find the resident utilities you have loaded and, more important, is great for sorting out peculiar interactions between multiple resident programs.

SoftTouch is a keyboard macro program not unlike ProKey. It allows you to store up to twenty five thousand key strokes, has a built in screen blanker and great wandering herds of other features.

Sub Chase is a first rate graphics arcade game. One sails across the clear blue sea - or green sea, depending on what sort of monitor you have - heaving depth charges off the stern to blow up subs. It's extremely well done and it has a panic button to clear the screen should the boss walk in. Requires a colour graphics card.



TheDraw is an ANSI screen editor. It allows you to create and edit full colour screens of text and graphics which can subsequently be typed to make them appear - in full colour - or integrated into programs. Requires DOS two or better, ANSI.SYS and is more fun with a colour monitor.

Trek is the best Star Trek game anyone has yet devised for the PC. The graphics are stunning, the complexity is intense and the action scoots along at warp nine as soon as the program gets going. Requires a colour card.

Crossword is a utility which translates text files from one application to another. It supports several popular word processors, including WordStar, WordStar 2000, Multimate, XYwrite, SideKick and standard ASCII. It saves ages worth of reformatting and does some useful things besides.

Only \$19.95

Volume 15

There is a lot of good stuff on this disk... but most important, there are two dynamite games herein. We could get into the graphics package, the CP/M emulator, the fractal program in C... however, it's the games that lo it. Plan to lose at least a weekend over this one.

Altamira is one of the nicest public domain paint box programs available for the PC. Unlike most of the so called graphics packages available for the PC, this one isn't restricted to doing bar charts and graphs. It does first rate pictures. Requires a colour card.

Fractal is the source code for the fractal generator in C that we looked at in the August edition of Computing Now!. It's useful even if you don't like fractals, as it illustrates the use of high resolution graphics in C. Requires a C compiler and a colour card.

NEMON is a really weird game. You get stuck in the catacombs of king Nemon with nothing more than your wits and a flashlight. You have to find some keys, some treasures and, hopefully, a way around a host of arcade game nasties.

Thor used to be the god of thunder. Now he appears to be the world's most sophisticated desk calendar program. He'll remind you of appointments, keep track of your agenda and to things that would usually require a host of low tech objects, like pencils and note pads.

	7.720.77	Here to the	1700	40FX VI	MONDAY,		THORDATE:
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Round 42 is a wholly bizzarre variation on the theme of space invaders. No longer the dusty arcade game that it once was, this thing breaths new and rather ichorous life into the ceaseless battle between you and the phospore aliens. This is one of the best computer games in creation. Requires a colour graphic card.

V20 is a CP/M emulator for users of the NEC V20 chip. Replace your existing 8088 with a V20, score this little program and most CP/M software will run on your system as if someone had stolen half the bits out of your PC. Regular MS-DOS isn't affected. Requires a V20.

Almost Free Business Software

MA.BAS The Micro Accountant is a complete, working accounting and check register program, with a 25K documentation file.

PCWNDW22 A "Sidekick"-like co-resident window utility. Pop-up window functions include ASCII table, stopwatch, alarm, printer setup utility and notepad. The entire program takes up less than 30K of space on your disk.

PSHIFT A time saving and convenient 'memory partition' utility. Lets you define up to nine memory areas. Load programs such as dBase II and WordStar into separate partitions and 'flip' between them instantly with simple keystrokes.

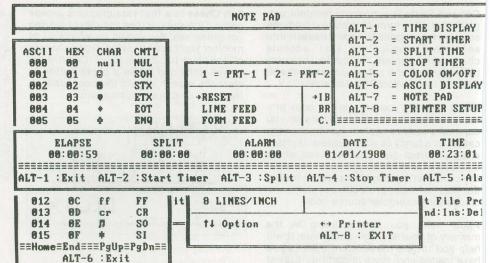
PC-TOUCH.BAS Increase typing speed and accuracy with this easy-to-use typing tutor. Also provides accuracy and speed statistics.

PCYEARBK.EXE Appointments and reminder program to help you keep track of your time.

TASKPLAN.BAS Project management software which lets you track up to 50 tasks over 50 time periods (days, weeks or months).

NOCOLOR A handy little utility for users with monochrome monitors and colour software.

MAXIT A simple but subtle game for two human opponents, or one player and the computer. Hours of fun!



PERTCHT A sophisticated project management tool using the Program Evaluation Review Technique (PERT).

PLUS More utilities to help organize maintain and copy your files, including a "monitor saving" program which blanks out your screen when it is not in use. Only \$19.95

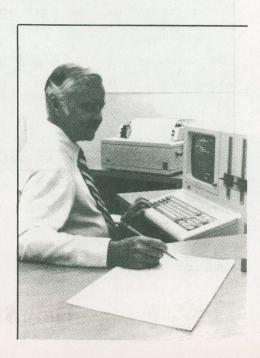
Stockboy Inventory

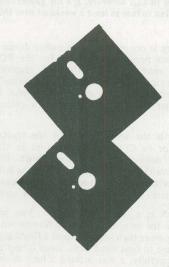
Stockboy is a good, powerful, flexible bargainpriced inventory package which will handle inventory for most small businesses needs. We use Stockboy for our own inventory control and it has stood the test of time.

Stockboy can:

- Maintain an inventory database with current, maximum and minimum stock reporting when an item needs re-ordering.
- Be a point of sale terminal, adjusting the stock data base on line.
- Produce individual packing lists.
- Generate a customer list to be used in mass mailings.
- Run on any CP/M or MS-DOS based computer, including Apple II systems with a Softcard.

Stockboy is written in Microsoft BASIC and is designed to be easily altered to suit your needs. It can be compiled using BASCOM if desired and is designed to be used by non-technical operators. Available for MS-DOS/PC-DOS and many CP/M systems.





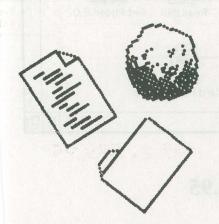
Only \$29.95

Volume 1

ASTEROIDS This is a splendid implementation of one of the most popular arcade games of all time. The graphics and sound effects are amazing.

RED RYDER Telecommunication on the Mac has never been this easy. RED RYDER includes XMODEM and Kermit protocols and many other features.

MacCLONE Many users have found the Mac's disk copy routine to be less than perfect. This is a vast improvement. It even defeats a number of copy protection schemes.



BINHEX is a utility for RED RYDER which converts applications files to binary files and back again to allow them to be transferred over phones lines.

LIFE is one of the classic computer programs, and this version is exceedingly well done.

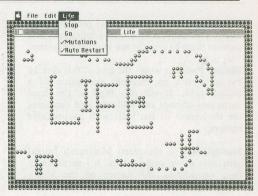
VIEW PAINT Ever wanted to look at a Mac-Paint drawing without getting into MacPAint. This utility lets you sneak peeks at your drawing files without fussing about.

RESOURCE EDITOR Macintosh icons and other resource items just cry out to be personalized. This little tool will help you make your Mac look its best for you.

SCREEN MAKER Moving text from Mac-Write to MacPaint can be a bit disappointing... something gets lost in the clipboard. This utility helps your words make the trip unscathed.

FONT EDITOR For those longing to make their own fonts... and for those who just want to adjust the ones they have... this editor lets you shuffle fat bits to your heart's content.

MENU EDITOR A handy utility for editing the words in Macintosh application menus.



Only \$24.95

Volume 2

FONT LIBRARIAN A splendid alternative to the Macintosh system font mover, this utility makes it easy to create custom collections of Macintosh fonts.

WIZARD'S FIRE This is a lively game which comes with still more lively games tucked away in the desk accessories. Get the magic rays before they get you!

SWITCHER Multitasking on a Mac? Why not. SWITCHER lets you run up to four applications concurrently on a 512K 'Fat Mac'.

RAMSTART Creates a RAM disk of any size on a fat MAc, and effectively increases the speed of most applications several times over.

MADONNA A MacPAint picture of the popular pop star.

MOCK CHART A desk accessory to handle the creation and printing of small business charts.

DAM A Desk Accessory Manager for setting up the Apple menu on your Macintosh the way you want it.

MOCK TERMINAL A desk accessory for telecommunication functions from *within* another application.

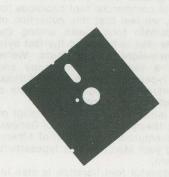
HP CALC Add a simulated Hewlett-Packard calculator to your Mac.

REdit A slick resource editor. See the December 1985 issue of Computing Now! for an in depth look at this esoteric art form.

ORION This one is worth the price of the disk all by itself. It simulates a star ship cruising around the galaxy at the speed of light. Stars fly past like white lines on the highway ... with or without star names fluttering like celestial flags. The heavens are accurately mapped and the star ship handles like any other warp drive star Chevy.







Only \$24.95

Icon Collector is a peculiar program that allows you to locate icons in applications and capture them to disk for use in other programs.

Billiard Parlor is worth the cost of this disk all by itself. It's an excellent simulation of a billiard table. It will play most of the usual variations of pool and billiards, and simulates the movement of the balls with unspeakable realism.

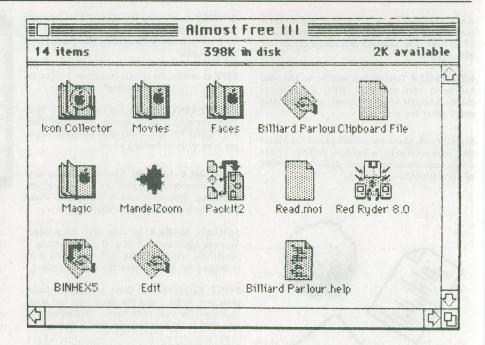
MandelZoom is the nicest Macintosh fractal generator we've come across. It's surprisingly fast, considering the nature of the Mac's floating point library.

Red Ryder This is the latest version of this popular communications program. It runs perfectly, giving you a sophisticated terminal with download facilities, macros and dozens of other features.

PackIt2 - not to be confused with PackIt - will compress and uncompress P2T libraries which have been downloaded from bulletin boards. An essential utility for telecommunications.

BINHEX5 is a file manipulation utility which allows Mac files to be sent over a modem.

Edit is the most sophisticated text editor available for the Mac. Operating similar to MacWrite, it allows you to edit documents in multiple windows. Ideal for program editing, Edit produces clean text files which can be compiled.



Only \$24.95

Volume 4

One of the most interesting aspects of the Macintosh is its ability to use software-based character sets. While there are a number of commercial font packages for the Mac, we feel that this collection of public domain fonts ranks among the best. This disk is filled - to the last byte-with thirty-eight unique fonts. We've selected a variety of body copy and display typefaces, spanning traditional and avant garde designs, along with a number of special purpose sets.

Bid fairwell to the placid exterior of Chicago, the mild amusement of Geneva, the unadventurous disposition of Athens and plug your Mac into this typesetter's pipe dream.

A powerful font librarian is also included to assist in adding the fonts you want to your system.

Fontasy I ⋒ 30 items 400K in disk OK available Toronto Chicago by Night Park Avenue WOWOBS Santiago Sea-(ritics Stuttgant Square Sarif New York Fontasy I Ercadway ⋒ 30 items 400K in disk OK available Minning 24 Toronto Chicago by Night London 18 & 36 Park Avenue WOWOBS San Francisco Santiago Sea-Critics Sanskrit New York Square Sarif Stuttgart Zurich 10 & 20 SAIVAGORE DA Broadway Bauhaus Hollywood Los Angeles 1 7 1 5 1 Shoppe 24 Cupertino Wartburg فسكن كسف بدا ا London 18 & 36 **≡òn =**ont Palo Alto San Francisco Ехетер Sanskrit **ЧИОИЛАИЧ** Foot Pica Font Мосчоя моссо DAIL SVINVAGOLE DVII Camelot Σαλαμισ Salam Demotic P3/1,____ Σπαρτα 10 Harmo! فسكن كسفحكارا Arabic Hood River Tfatfollm Lothlorie

Only \$24.95

Volume 1





MODEM 7 Allows you to communicate with any CP/M-based system to download and upload files. Complete details for this program first appeared in the November 1983 issue of Computing Now!

PACMAN You really can play PACMAN without graphics... and it works pretty fast.

FORTH An up-to-date version of FIG FORTH, complete with its own internal DOS.

DUU The ultimate disk utility, DUU lets you recover accidentally erased files, fix corrupted files, and modify the system.

D A sorted directory program that tells you how big your files are and how much space is left on the disk.

USQ/SQ Lets you compress and un-compress files. You can pack about 40 more data on a disk with this system.

FINANCE A fairly sophisticated financial package written in Microsoft BASIC.

BADLIM Ever had to throw out a disk with a single bad sector? BADLIM isolates bad sectors and allocates them to an invisible file, making the rest of the disk useable.

DISK Allows you to COPY, MOVE, DELETE and VIEW files with a simple command structure.

QUEST Similar to "Dungeons and Dragons", QUEST provides hours of glorious adventure.

STOCKS A complete stock management program written in BASIC.

SEE Also known as TYPE17, this utility will TYPE any file, compressed or not, allowing you read documents which are stored in a compressed form.

Only \$19.95

Call or write for available formats.

BISHOW is the ultimate file typer. This version will type squeezed or un-squeezed files and allow you to type files which have been archived with utilities such as LU (see below). BISHOW even lets you scroll up and down through typed files.

LU is a library utility which stores multiple files under a single file name in order to save disk space. Files can be removed from the library as they are needed.

MORTGAGE is a fancy mortgage amortization program which produces a variety of useful tables.

NBASIC Large, commercial BASIC's are powerful, but expensive. This one however is free, and every bit as flexible as many commercial packages. It's also compatible with North Star BASIC.

Z80ASM is a complete assembler package which uses true Zilog Z80 mnemonics. It has a rich vocabulary of pseudo-ops, permitting you to use features of your Z80-based machine which are unavailable with ASM or MAC.

VFILE Easily the ultimate disk utility, VFILE gives you a full screen view of the files on your disk and allows you to do mass COPY and DELETE operations using a two-dimensional cursor. It has lots of 'extras', a built-in help file and it's fast.

ROMAN Though some say it's silly, this novel little program is a fun way to convert ROMAN numerals into decimal numbers.

CATCHUM If you like the fast pace and incredible realism of Pacman, you'll go quietly insane over CATCHUM... which plays basically the same game using ASCII characters. Watch little "C"'s gobble periods, while you try to avoid the delay "A"'s.

Only \$19.95 each or \$39.95 for all 3

Call or write for available formats.



Volume 3

OIL An interesting simulation of the working of the oil industry. It can be approached either as a game or as a fairly sophisticated model.

CHESS This program really does play a mean game of chess. It has an on-screen display of the board, a choice of colours and selectable levels of play.

DEBUG The DDT debugger is good, but this utility adds many new facilities, including symbolic debugging. It's almost like being able to step, trace and disassemble through a source listing

DU87 This version overcomes several limitations of the older DUU program and adds some new features. It will adapt to any system and can search, map and dump disk sectors or files. Its invaluable in recovering damaged files too.

ELIZA Written in MBASIC, this classic program is a microcomputer analyst. With a little imagination you will be able to believe you are conversing with a real psychiatrist.

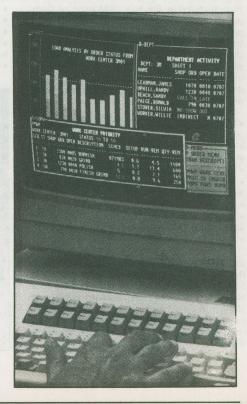
LADDER Fast, bizarre and probably a major cause of eye strain. This program plays like Donkey Kong with ASCII characters.

QUIKKEY Programmable function keys let you hit one key to issue a multi-character command. This tiny utility lets you define as many "macros" as you want, with seldom used control codes. Keys can be redefined at any time... even from within another program.

RESOURCE While a debugger will enable you to disassemble small bits of code easily enough, only a true text based disassembler can take a .COM file and make source out of it again. This is one of the best ones available.

Only \$19.95

Call or write for available formats.



Almost Free Apple DOS

A Teacher for the Apple

Almost Free Electronics Design.

Steve's Wunderdisk

Specifically developed for the educational market, this disk introduces both teachers and students to the Apple II series and compatible systems.

It is designed to show you how to make the computer work for you.

After introducing you to the computer, it goes on to explain the BASIC programming language. With step-by-step instructions it shows you the ins-and-outs of Apple programming and explains the workings of DOS and high resolution graphics.

Designed for new computer users, just turn on the computer, slide in disk, and enter the world of Apple programming.

Requires Applesoft BASIC, 48K RAM and one disk drive.

Only \$19.95

Contains BASIC utilities for attenuators, highpass and lowpass filters, series and parallel resistors, slew rate prediction, resonant circuits, power transformer selection, audio transformer selection, RMS-average-peak conversions for full and half-wave, transistor selection, and more. Also contains a program for determining the parameters of strobe light circuits; it determines power ratings, time constants, capacitor size, resistor sizes, operating voltages, dissipation and other necessary calculations. Written by Bill Markwick, the editor of Electronics Today, the utilities are not copy-protected and are easily modified to suit the user's reauirements.

Available for MS/PC DOS with GWBASIC or Apple II systems with Applesoft BASIC.

Only \$19.95

Over the years many first rate program listings have graced the pages of Computing Now!. And we have many which have never been published. We've collected the best of these and put them on one disk. Included are programs like STAR, for setting up a Gemini 10 printer, the Last WordStar Unhook, CPMAP and the CP/M HOST program, complete with several unreleased support programs.

The Wunderdisk is an excellent collection of tricky CP/M routines. It's deal for anyone who wants to make their CP/M system sing! And the programs on the disk are well documented... most of them have been explored and explained in the pages of Computing Now!

Only \$19.95

MDM730 for Apple CP/M

First featured in the July 1984 issue of Computing Now!, MDM730 is one of the most powerful MODEM7 programs available. Our version incorporates features not available in the public domain. MDM730 is an efficient, easy-to-use software tool for anyone interested in telecommunications, bulletin boards and downloading software. Consider these features:

- Terminal program which works at any baud
- Ten programmable macro function keys.
- A Phone number library for 36 numbers.
- Christensen software transfer protocol.
- User selectable toggles for linefeeds, ON-XOFF, etc.
- Extensive help menus.
- Baud rate selection on the fly.
- ASCII dump and capture.
- Status menu.

In addition, we've added dialing support for the Apple version. While the standard MDM730 can not dial unless it's hooked to a Hayes Smartmodem, we've added patches to allow it to do pin twenty-five pulse dialing and to dial through the Hayes Micromodem II and the SSM card. The Computing Now MDM730 will also:

- Select a number form the library and dial it.
- · Dial manually entered numbers.
- Log you on to a remote system if it's free.
 Optionally autodial if the remote system is
- Optionally autodial if the remote system is busy.
- Keep track of the number of re-dial attempts.



The Computing Now! MDM730 package is available for:

- The Hayes Micromodem II card.
- The SSM 300 Baud modem card.
- The PDA 232C serial card with external modem.

The PDA 232C package includes versions supporting both the Smartmodem and a dumb modem with pin twenty-five control, such as the Novation AutoCat.

Each package also includes utilities for updating the phone number library and redefining the function key macro strings, as well as an extensive help file.

The source code for this program is over one hundred and fifty kilobytes long and can not be hacked on a standard Apple system. We patched it on a larger machine and downloaded it. We're confident you won't find MDM730 with these features anywhere else.

Only \$19.95

Available for Apple II series and compatibles with CP/M

THE BOOK OF THE BOOK OF THE BOOK OF

Almost Free Voices

MIDI may be the most significant advance in music technology since the discovery of sound. However, if you can't understand what it's capable of... or can't comprehend the cacaphony of manufacturers' claims that surround it... it might as well have been a new revolution in food processors.

We understand MIDI better than anyone. We're comfortable with both the computers in all their confusing technological glory and with the music that makes them all worth while. If you read the **Book of Computer Music** you'll understand MIDI too.

And you'll realize that it's as magnificent a trip as

Whether you're an amature musician with a cassette deck and a keyboard, a working performer or a studio artist, the **Book of Computer Music** will turn you onto MIDI as no other reference work can. By the time you hit the back cover you'll be wholly comfortable with system exclusives, tracks, MIDI messages, FM synthesis, through boxes and all the other mystifying technological mind games that accompany this powerful new musical instrument.

You'll be able to play MIDI as easily as you play keyboards for guitar... or flute or violin or percussion or nose harp... right now.

Included in the Book of Computer Music are articles about

The Yamaha DX-7 • The IVL Pitch Rider • Personal Composer • The Yamaha RX-21 • Total Music for the Macintosh • The Yamaha CX5M Music Computer • The Akai AX-60 • The Roland GR Instruments • Computers Fopr Musicians • The Roland SDE 2500 MIDI effects system • The Yamaha DX-100 • The Nexus FM Drawing Board • The Akai S612 Sampler • Building a MIDI Through Box • The Roland Alpha Juno • DX-7 Voice Editing • Writing Your Own MIDI Software.

Plus a complete introduction to MIDI in a number of in depth, easy to understand articles that won't leave you feeling like your head got lost in the Twilight Zone.

for the IBM PC

The Yamaha DX-7 is one of the most powerful MIDI equipped synthesizers on the planet. One of the things that makes it so unspeakably slick is its capacity for having its preset voices loaded through the MIDI port. You can store banks of voices on disks and send them to the DX-7 almost instantly when you want them.

While there are numerous DX-7 voice librarians available, many replete with pots of voices to use, these things are nasty and expensive and very often fairly complex to operate when all you really want to do is to port voices. As such, in the tradition of almost free software, we've assembled a collection of almost free DX-7 voices. This includes a whole disk full of voice libraries and a really snappy little utility to send them over to the DX-7.

If the voices that came with your DX-7 blew you away, these libraries will send your brain into several other higher order dimensions at once. They range from the most sublime recreations of acoustic instruments to freaky, bizarre effects certain to be overused at least once. We've assembled them into performance groups to make them immediately useful, and made them compatible with the DX-Archive voice librarian software to make them easy to re-organize if you want to. The DX-Archive program is available separately... check out the details below.

There are libraries on the disk of percussive effects, woodwinds, a whole set of pianos, heavy metal noises, string and brass sections, funk collections, baroque collections, rock collections, jazz collections and a few collections that defy description. There are enough voices here to keep your DX-7 confused for your lifetime and that of your immediate descendants.

The DX-Archive voice librarian software is available separately for \$39.95 from XLelectronix Computer Music Centre, 317 College Street, Toronto, Ontario M5T 1S2. It provides complete voice bank transfer facilities plus a convenient method for re-organizing the voices in multiple libraries.

Fine Print: These voices have been designed for the Yamaha DX-7 synthesizer. While they will probably work on other, similar Yamaha instruments, they have not been tested on anything other than the DX-7. Instruments with synthesizers having fewer operators, such as the DX-9, may experience sonic peculiarities in using some of these voices.

the DX-9, may experience sonic peculiarities in using some of these voices.

The use of this collection presupposes the availability of an IBM PC or compatible computer, DOS 2 or higher and a Roland MPU-401 MIDI interface.

Moorshead Publications warrants that these voices will be readable when you get them. The post office, however, may have ideas of its own. If your disk doesn't function properly when you receive it please contact us for a prompt replacement.

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PRINTER SECTION



Brother 2024L

Manufacturer: Brother dot matrix Type: **Print Speed:** 160 cps **Print Modes:** draft, NLQ Graphics: ves Cut Sheet Feed: yes

Interface: serial, parallel Sak Data Products **Available From:**

Price: \$1850.00 Optional cut sheet feeder.

Brother EP-44 KSR

Manufacturer: Brother dot matrix Type: **Print Speed:** 16 cps **Print Modes:** NLQ Interface: serial

Available From: Sak Data Products

\$440.00

Printer/typewriter, with complete keyboard, LCD display, four-function calculator, etc. Weighs 5 lbs. Uses thermal transfer ribbon on thermal or normal paper. Second Shift key for 44 international characters.

Brother HR-10

Manufacturer: Brother Type: daisy wheel **Print Speed:** 12 cps **Print Modes:** letter Interface: serial, parallel

Available From: Sak Data Products

Price: \$650.00

Portable, with carrying handle, weighs 13 lbs. Cartridge

type print wheels.

Brother HR-15XL

Manufacturer: Brother daisy wheel Type: **Print Speed:** 17 cps **Print Modes:** letter Cut Sheet Feed: yes

Interface: serial, parallel Sak Data Products Available From:

\$940.00 Price:

Optional cut sheet feeder, tractor. Accepts Brother KB-50 typewriter keyboard for typethrough printing.

Brother HR-25

Manufacturer: Brother daisy wheel Type: Print Speed: 23 cps Print Modes: letter Cut Sheet Feed:

Interface: serial, parallel Available From: Sak Data Products \$1295.00 Price:

Optional tractor, cut sheet feeder, acoustic cover, etc.

Brother HR-35DD Twinriter 5

Manufacturer: Brother Type: dot matrix 140 cps draft, NLQ, letter **Print Speed: Print Modes: Graphics:** yes

Download Fonts: yes Cut Sheet Feed: yes Interface:

serial, parallel Available From: Sak Data Products Price: \$2150.00

Unique twin-head system includes both dot matrix and daisy wheel. Prints 36 cps in daisy wheel mode, 17 cps in dot matrix near-letter quality mode. Graphics at up to 240 dots per inch. Optional tractor, cut sheet feeder, etc.

C Itoh D10-40

Manufacturer: C Itoh daisy wheel Type: **Print Speed:** 40 cps Print Modes: letter Cut Sheet Feed: yes serial, parallel \$949.00 (US) Interface:

Price: Features 8K buffer, Diablo 630 emulation, quiet 60 dB operation and light 33 pound weight. Prints elite, pica or

proportional. Takes Diablo print wheels.

Dynax DM-20

Manufacturer: Dynax Type: dot matrix 160 cps Print Speed: draft, NLQ **Print Modes: Graphics:** ves **Download Fonts:** yes

Interface: serial, parallel **Available From:** Gentek \$599.00 Price:

Panasonic KX-P 1093 compatible, with 2K buffer.

Printers

Generic

Enter SP1200

Manufacturer: Enter Computer plotter, color Print Modes: NLQ

Graphics: yes
Download Fonts: yes
Interface: serial
Price: \$4995.00 (US)

Size from business card up to size E 34x44 and extra large 37.5x81 inches. Sheet or roll paper, vellum or clear film. Emulates Houston Instruments DM/PL language, HP type pens, works with most software. Speed 10 in/sec, .0025-in resolution.

Epson CR 420i

Manufacturer: Epson
Type: dot matrix
Print Speed: 420 cps
Print Modes: draft, NLQ
Interface: serial, parallel
Available From: Epson Canada
Price: \$3495.00

High throughput printer suited to multi-user or data processing environments. Built-in 18K buffer, several fonts. Prints near-letter quality at 104 cps.

Epson DX 10

Manufacturer: Epson
Type: daisy wheel
Print Speed: 10 cps
Print Modes: letter
Interface: parallel
Available From: Epson Canada
Price: \$599.00

Uses Diablo 630 compatible command set. Friction feed.

Epson DX 20

Manufacturer: Epson
Type: daisy wheel
Print Speed: 20 cps
Print Modes: letter
Interface: parallel
Available From: Epson Canada
Price: \$815.00

RS-232 and IEEE-488 interfaces, friction feed. Uses Diablo 630 compatible command set.

Epson DX 35

Manufacturer: Epson
Type: daisy wheel
Print Speed: 35 cps
Print Modes: letter
Interface: parallel
Available From: Epson Canada
Price: \$1495.00
Emulates Diablo 630 command set.

Epson HI-80

Manufacturer: Epson
Type: plotter, color
Print Speed: 9 cps
Graphics: yes
Interface: parallel
Available From: Epson Canada
Price: \$845.00
Prints at 9 ips/6.5 cps, in four colors.

Epson HS-80

Manufacturer: Epson
Type: ink jet
Print Speed: 160 cps
Print Modes: draft, NLQ
Interface: parallel
Available From: 5769,00

Prints near-letter quality at 32 cps. Runs on rechargeable NiCad batteries, includes AC adapter. Friction feed.

Epson Homewriter 10

Manufacturer: Epson dot matrix Type: **Print Speed:** 100 cps **Print Modes:** draft, NLQ **Graphics:** ves Interface: parallel Available From: Epson Canada \$499.00 Price:

Prints near-letter quality at 16 cps. Accepts Printer Interface Cartridges for compatibility with most home

computers.

Epson JX-80

Manufacturer: Epson
Type: dot matrix, color
Print Speed: 160 cps
Print Medes: desft

Print Modes: draft Graphics: yes Interface: serial,

Interface: serial, parallel
Available From: Epson Canada
Price: \$995.00
Uses 4-color ribbon, prints 7 colors.

Epson LQ-1000

Manufacturer: Epson
Type: dot matrix
Print Speed: 180 cps
Print Modes: draft, NLQ
Graphics: yes
Download Fonts: yes
Cut Sheet Feed: yes
Interface: serial, parall

Interface: serial, parallel
Available From: Epson Canada
Price: \$1769.00

Prints near-letter quality at 60 cps. Friction feed standard, tractor and cut-sheet feeder optional. Built-in 7K buffer.

Epson LQ-800

Manufacturer: Epson
Type: dot matrix
Print Speed: 180 cps
Print Modes: draft, NLQ
Graphics: yes
Download Fonts: yes
Cut Sheet Feed: yes

Interface: serial, parallel Available From: Epson Canada Price: \$1375.00

Prints near-letter quality at 60 cps. Friction feed standard, tractor and cut-sheet feeder optional. Built-in 8K buffer.

Epson LX-80

Manufacturer: Epson dot matrix Print Speed: 100 cps draft, NLQ Graphics: yes Interface: parallel Available From: Epson Canada Price: \$539.00

Prints near-letter quality at 16 cps. Takes Epson Printer Interface Cartridge for compatibility with most computers. Friction feed.

Epson LX-90

Manufacturer: Epson dot matrix Type: 100 cps **Print Speed:** draft, NLQ **Print Modes: Graphics:** yes Interface: parallel Available From: Epson Canada \$569.00 Price:

Prints near-letter quality at 16 cps. Includes friction and tractor feed. Accepts Epson Printer Interface Cartridge for compatibility with most computers.

Epson P-80

Manufacturer: Epson
Type: thermal
Print Speed: 45 cps
Print Modes: draft
Interface: serial
Available From: Epson Canada
Price: \$429,00

Uses 9x9 thermal print matrix, 3 typestyles. Runs on rechargeable NiCad batteries, includes AC adapter. Friction feed, RS-232 interface.

Epson P-80X

Manufacturer: Epson
Type: thermal
Print Speed: 45 cps
Print Modes: draft, NLQ
Interface: serial
Available From: Epson Canada
Price: \$679.00

Prints near-letter quality at 22 cps. Uses 24-element thermal matrix. Runs on rechargeable NiCad batteries, includes AC adapter. Friction feed, RS-232 interface.

Epson RX-100P

Manufacturer: Epson dot matrix Type: 100 cps **Print Speed: Print Modes:** draft Graphics: ves Interface: parallel Available From: Epson Canada \$599.00 Price: Friction and tractor feed.

Epson RX-80

Manufacturer: Epson dot matrix Type: **Print Speed:** 100 cps **Print Modes:** draft Graphics: yes Interface: parallel **Available From:** Epson Canada Price: Tractor feed

Epson SQ-2000

Manufacturer: Epson
Type: ink jet
Print Speed: 176 cps
Print Modes: draft, NLQ, letter
Graphics: yes
Interface: parallel
Available From: Epson Canada

Price: \$3825.00 Friction feed standard. Features low noise, push-button

ink line purge.

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Printers

Generic

IBM Color Jetprinter

Manufacturer: **IBM**

ink jet, color Type: **Print Speed:** 50 cps **Print Modes:** draft, NLO Graphics: yes

Download Fonts: ves Interface: parallel Available From: IBM \$1199.00 Price:

Provides draft or near-letter quality color text, color graphics at 100x96 or 100x72 dots per inch resolution, normal text modes such as bold, condensed, etc. Takes 2 ink cartridges, one for black one for colors. Uses special or bond paper.

Juki 6000

Manufacturer: Juki daisy wheel Type: Print Speed: 10 cps **Print Modes:** letter Interface: serial, parallel

Available From: Ingram Price: \$295.00 (US)

Small, lightweight, quiet. "Ideal for home use."

Juki 6100

Manufacturer: Juki daisy wheel Type: **Print Speed:** 18 cps **Print Modes:** letter Interface: parallel **Available From:** Ingram

\$599.00 (US) Built-in 2K buffer, expandable to 8K.

Juki 6300

Manufacturer: Juki Type: daisy wheel **Print Speed:** 40 cps **Print Modes:** letter

Interface: serial, parallel Available From: Ingram Price: \$995.00 (US) Built-in 3K buffer, expandable to 15K

KISS

Manufacturer: Type: laser **Print Speed:** 6 ppm **Print Modes:** letter **Graphics:** yes **Download Fonts:** Cut Sheet Feed:

\$1995.00 (US) Price:

Mannesman Tally MT 145 Manufacturer: Mannesman Tally Type: dot matrix **Print Speed:**

120 cps **Print Modes:** draft, NLQ **Graphics:**

Interface: serial, parallel **Available From:** Sak Data Products Price: \$2995.00

Special heavy forms printer, with tear bars immediate document retrieval, modified tractor and high-impact print head for printing on thick multi-part forms, card stock, labels, etc.

Mannesman Tally MT 165

Manufacturer: Mannesman Tally Type: dot matrix **Print Speed:** 160 cps **Print Modes:** draft, NLO Graphics: yes Interface:

serial, parallel Sak Data Products Available From: Price: \$1850.00

Special point of sale demand document printer, capable of printing on last line of form, less than 1 inch from top of form, with tear bars to allow printing on thick forms such as airline boarding passes. Near-letter quality at 40 cps.

Mannesman Tally MT 460D

Manufacturer: Mannesman Tally dot matrix **Print Speed:** 270 cps **Print Modes:** draft, NLQ **Graphics: Download Fonts:** Cut Sheet Feed:

Interface: serial, parallel Available From: Sak Data Products \$4250.00 Price:

Special Applications Printer. Features graphics at 160x84 dots per inch, special double-width and oversize characters for bar codes, graphics, etc. Modular interfaces available for RS-232, RS-422, RS-423 and current loop.

Olympia NP 136

Manufacturer: Olympia dot matrix Type: 200 cps Print Speed: draft, NLQ **Print Modes:** Interface: parallel Select Marketing Available From: Price: \$1035.00

Olympia Compact NP

Manufacturer: Olympia dot matrix Type: **Print Speed:** 165 cps **Print Modes:** draft, NLQ Graphics: ves **Download Fonts:** ves Interface: parallel

Available From: Gentek, Select Marketing

Price: \$649.00

Olympia Compact RO

Manufacturer: Olympia daisy wheel Type: **Print Speed:** 14 cps **Print Modes:** letter Interface: parallel

Available From: Select Marketing \$775.00 Price:

Olympia ESW-1000

Manufacturer: Olympia Type: daisy wheel Print Speed: 16 cps **Print Modes:** letter Interface: parallel Available From: Select Marketing

\$895.00

Olympia ESW-2000

Manufacturer: Olympia Type: daisy wheel **Print Speed:** 20 cps **Print Modes:** letter Interface: parallel Available From: Select Marketing \$1295.00 Price:

Olympia NP 80

Manufacturer: Olympia dot matrix Print Speed: 200 cps draft, NLQ **Print Modes:** Interface: parallel Select Marketing **Available From:**

\$895.00 Price:

Omnilaser 2015

Texas Instruments Manufacturer: Type: laser **Print Speed:** 15 ppm **Print Modes:**

letter Graphics: yes Download Fonts: ves Cut Sheet Feed: yes

Interface: serial, parallel Available From: Texas Instruments \$5995.00 (US) Price:

Includes 512K RAM, produces full-page graphics at 150 dots per inch, half-page graphics at 300 dots per inch. Font cartridges available, \$250-\$300 US. Emulates Diablo 630. HP LaserJet and TI 855 command codes.

Omnilaser 2108

Manufacturer: Texas Instruments

Type: laser **Print Speed:** 8 ppm **Print Modes:** letter Graphics: yes Download Fonts: yes Cut Sheet Feed: yes

Interface: serial, parallel Available From: Texas Instruments Price: \$5995.00 (US)

PostScript page-description language built-in, prints fullpage graphics at up to 300 dots per inch. Emulates Diablo 630, HP LaserJet, TI 855 and HP 7475 plotter command set. Interfaces for RS-232, RS-422, Appletalk, Centronix.

Omnilaser 2115

Manufacturer: Texas Instruments Type: laser Print Speed: 15 ppm Print Modes: letter Graphics: ves Download Fonts: ves Cut Sheet Feed: yes

Interface: serial, parallel Available From: Texas Instruments \$7995.00 (US) Price:

PostScript page-description language built-in, prints fullpage graphics at up to 300 dots per inch. Emulates Diablo 630, HP LaserJet, TI 855 and HP 7475 plotter command set. Interfaces for RS-232, RS-422, Appletalk, Centronix.

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Printers

Generic

Panasonic KX-P 1080

Manufacturer: Panasonic dot matrix **Print Speed:** 100 cps draft, NLQ **Print Modes: Graphics:** parallel Interface:

Available From: Gentek Price: \$329.00 Serial interface \$115 extra.

Primage 90

Manufacturer: Primages Inc Type: daisy wheel **Print Speed:** 90 cps **Print Modes:** letter Cut Sheet Feed:

serial, parallel Interface: Available From: AMIES Inc Price: \$2350.00

Prints actual 62 cps in SHannon Text mode. Emulates Diablo sequences, prints 10, 12, 15, proportional pitch, uses multi-strike or fabric ribbon cartridge. Cut sheet feed standard, tractor feed, double or triple bin sheet feeder optional.

QuadLaser

Manufacturer: **Ouadram** Type: laser **Print Speed:** 8 ppm **Print Modes:** letter **Graphics:** ves Download Fonts: yes Cut Sheet Feed: yes

Interface: serial, parallel Available From: Chevco

Price: \$5995.00 Includes 1M RAM, 7 fonts, QLX menu-driven utility software, QuadForm forms generator software, QuadFont font editor. Emulates Qume, Epson, Laserjet, etc. Serial or parallel versions available. Upgradeable to 2M RAM. Extra fonts \$160 for 4.

Ouadiet

Manufacturer: Quadram Type: ink jet, color **Print Speed:** 37 cps **Print Modes:** draft, NLQ Graphics: yes Interface: parallel Available From: Chevco Price: \$795.00

Drop-on-demand print system, 5-7 matrix characters. Graphics at up to 640 dots per line, at up to 2600 dots per second print speed. Available with Apple or IBM accessory kit.

Seikosha BP-5420AI

Manufacturer: Seikosha Type: dot matrix **Print Speed:** 420 cps draft, NLQ Print Modes: **Cut Sheet Feed:** serial, parallel Interface:

Available From: Select Marketing Price: \$2885.00

Prints near-letter quality at 104 cps. Switch-selectable IBM and Epson emulation modes. Standard 18K buffer. Selection of character sets and fonts accessible from front panel.

Seikosha MP-1300AI

Manufacturer: Seikosha dot matrix, color Type: Print Speed: 300 cps **Print Modes:** draft, NLQ **Cut Sheet Feed:** ves Interface: serial, parallel **Available From:** Select Marketing \$1239.00

Prints near-letter quality at 50 cps. IBM and Epson emulation modes switch-selectable. Standard 10K buffer. Optional 7-color printing kit, Epson JX command com-

Seikosha SP-1000

Manufacturer: Seikosha Type: dot matrix **Print Speed:** 100 cps **Print Modes:** draft, NLQ Cut Sheet Feed: Interface: parallel **Available From:** Select Marketing \$460.00

Prints near-letter quality at 20 cps. Built-in interfaces available for most computers, including IBM, Apple Macintosh, C-64, etc. C-64 version \$430.

Spectrum LX-80

Manufacturer: Epson dot matrix Type: 100 cps **Print Speed: Print Modes:** draft, NLQ Graphics: **Download Fonts:** ves Interface: parallel Available From: Epson Canada \$519.00

Star NB-15

Price:

Manufacturer: Star Micronics Type: dot matrix 300 cps **Print Speed: Print Modes:** draft, NLQ **Graphics:** Download Fonts: yes **Cut Sheet Feed:** Interface: parallel **Available From:** Compuserve \$2195.00

Prints near-letter quality at 100 cps. Page length, print pitch, typeface, print mode selectable from front panel. Built-in 16K buffer, expandable to 32K. Rear tractor for top-of-form tearoff. Cut-sheet feed with 1 or 2 bins op-

Star NX-10

Manufacturer: Star Micronics dot matrix Type: **Print Speed:** 120 cps **Print Modes:** draft, NLQ Graphics: ves **Download Fonts:** yes Cut Sheet Feed: ves Interface: parallel Available From: Compuserve \$495.00 Price:

Pitch, margins and print mode can be changed from front panel. Rear tractor for top-of-form tearoff.

Star PowerType

Manufacturer: Star Micronics daisy wheel Type: **Print Speed:** 18 cps **Print Modes:** letter Interface: serial, parallel **Available From:** Compuserve \$535.00 Price:

Star SG-10

Manufacturer: Star Micronics dot matrix Type: 120 cps **Print Speed: Print Modes:** draft, NLQ **Graphics:** yes **Download Fonts:** yes Interface: serial, parallel

Available From: Compuserve \$379.00 Price:

Star SG-15

Manufacturer: Star Micronics Type: dot matrix **Print Speed:** 120 cps **Print Modes:** draft, NLQ **Graphics:** ves **Download Fonts:** yes

Interface: serial, parallel **Available From:** Compuserve \$599.00 Price:

Star SR-15

Manufacturer: Star Micronics dot matrix Type: Print Speed: 200 cps **Print Modes:** draft, NLQ **Graphics: Download Fonts: Cut Sheet Feed:** yes Interface: serial, parallel

Available From: Compuserve \$995.00 Price:

Tandy CGP-220

Manufacturer: Tandy ink jet, color Type: **Print Speed:** 37 cps **Print Modes:** draft **Graphics:** yes **Download Fonts:** Available From: Radio Shack \$799.00 Price:

Prints yellow, violet, red, green, cyan, magenta and black. Prints 37 cpi in tesxt mode, 2600 dots/sec in graphics mode, with 560 dots/line monochrome and 640 dots/line in color. Supports altered character sets. Programmable from BASIC.

Toshiba P351

Manufacturer: Toshiba Type: dot matrix **Print Speed:** 288 cps draft, NLQ, letter **Print Modes: Graphics:** yes

Download Fonts: Interface: parallel Available From: **EMJ** Price: \$2500.00

Prints graphics at up to 360x180 dots per inch. Tractor feed \$395 extra.

MONITOR SECTION





Amberchrome

Manufacturer: Quadram

Type: monocrhome, TTL

Screen Size: 12 inch **Available From:** Chevco Price: \$339.00

Amber phosphor. Front-mounted brightness control.

Amdek 300/300A

Manufacturer: Amdek

Type: monochrome, composite

Screen Size: 12 inch Bandwidth: 18 Mhz Available From: Amdek, Ingram Price: \$283.33

Green phosphor. Amdek 300A with amber phosphor,

\$291.66

Amdek 500

Manufacturer: Amdek color, RGB Type: Screen Size: 13 inch Bandwidth: 12 Mhz

Available From: Amdek Price: \$775.00

Amdek Color 600

Manufacturer: Amdek

Type: color, RGB Screen Size: 13 inch Bandwidth: 40 Mhz **Available From:** Amdek, Ingram Price: \$939.00

Color, brightness, height controls, switch for mono-

chrome green or amber display

Amdek Color 710

Manufacturer: Amdek color, RGB Type: Available From: Amdek

\$699.00 (US) Price: Selectable green or amber text, plus grey-scale mono-

chrome. Brightness, contrast controls.

Artscreen 1219

Manufacturer: Control Systems color, RGB Type: Screen Size: 19 inch Bandwidth: 40 Mhz **Available From:** Computech Micro

\$5950.00

Challenger Multi-Display

Manufacturer: Challenger Type: color, RGB Screen Size: 14 inch Bandwidth: 14 Mhz **Available From:** Computron \$799.00

Price: Cables included.

Definition 890/DI

Manufacturer: Microvitec Type: color, RGB Screen Size: 14 inch Bandwidth: 18 Mhz **Available From:**

Price: \$935.00

Brightness and contrast controls, dark tinted faceplate.

Definition 895/DU

Manufacturer: Microvitec Type: color, RGB Screen Size: 14 inch Bandwidth: 18 Mhz Available From: EMJ

Designed specially for Ultragraph 800 enhanced display adapter, applications such as CAD or mainframe graphics. Also available are 895/DI for Tecmar Graphics Master, and 895/DD for Forte Graph. With Ultragraph 800 display

\$1455.00

card, \$3195.

Definition 943/CN

Manufacturer: Microvitec color, RGB Type: Screen Size: 20 inch Bandwidth: 40 Mhz **Available From: EMJ** \$2919.00

A high-quality medium-resolution monitor designed for use with IBM Professional Graphics Controller. Longpersistence phosphor provides resolution for 640x480 non-

interlaced up to 830x630 interlaced displays

Definition 945/CN

Manufacturer: Microvitec Type: color, RGB Screen Size: 20 inch Bandwidth: 40 Mhz **Available From: EMJ**

\$3244.00

Designed for use with graphics cards capable of supporting resolutions of 1024x768 interlaced and higher. Long persistence, fine dot pitch, suitable for CAD, graphic arts,

etc.

Monitors

Generic

Gigatek (series)

Manufacturer:

Gigatek

Type: color, composite Screen Size: 9 inch

Bandwidth: 40 Mhz

Available From: Electro & Optica

Price:

n/a Screen sizes from 9 through 20 inch.

Hitachi HM-3619A

Manufacturer: Hitachi Type: color, RGB

Screen Size: 19 inch Bandwidth: 45 Mhz

Available From: Computech Micro

Configurable to various computers.

IBM Color Display

Manufacturer:

Type: Price:

color, RGB \$680.00 (US)

Contrast and brightness controls, vertical size.

JIL JMMR 1901

Manufacturer:

Type:

monochrome, composite

Screen Size: Bandwidth:

12 inch 18 Mhz \$149.95

Available From: Gladstone Electronic

Kimtron 1411

Manufacturer:

Kimtron Type: color, RGB 14 inch

Screen Size: Price:

n/a

Kimtron 1421-AG

Manufacturer: Kimtron

color, RGB Type: Screen Size: 14 inch

Bandwidth: 18 Mhz Available From: Compuserve Price: \$789.00

Cables included

Kimtron SCC-24

Manufacturer: Kimtron

color, RGB Type: Screen Size: 14 inch Bandwidth: 25 Mhz

Available From: D&D Distributors

Price:

Cables included.

Limelight Computer Projector

Manufacturer:

Vivid Systems Type: monochrome, composite

Available From:

Price: \$6150.00

Takes composite input, projects display onto movie screen. Includes 25-foot video cable, AC cord, pointer light, 2 video connectors. Works with moswt computers and terminals

Mitsubishi AT-1332A

Manufacturer: Mitsubishi

color, RGB Type:

Screen Size: 14 inch **Available From:** Mitsubishi

\$699.00 Price:

Mitsubishi C-3479

Manufacturer: Mitsubishi

Type: color, RGB Screen Size: 13 inch 40 Mhz

Bandwidth: Available From: Mitsubishi Price: \$1590.00

RGB and composite interface.

Mitsubishi C-6920

Manufacturer: Mitsubishi

Type: color, RGB

Screen Size: 19 inch Bandwidth:

50 Mhz Available From: Mitsubishi

\$3569.00

Price:

RGB and composite interface. Cables included.

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Monitors

Generic

Multitech CVM-14

Manufacturer: Multitech color, RGB Type: Screen Size: 14 inch Bandwidth: 18 Mhz

Available From: Tithes Business Systems

\$559.00

Switch-selectable amber and green monochrome viewing

modes

Multitech MDM-12G

Manufacturer: Multitech Type: monocrhome, TTL Screen Size: 12 inch

Bandwidth:

Available From: Tithes Business Systems

Price: \$229.00

Green phosphor, includes tilt/swivel base

Multitech MDM-14

Manufacturer: Multitech Type: monocrhome, TTL

Screen Size: 14 inch Bandwidth: 20 Mhz

Tithes Business Systems Available From:

\$329.00 Price:

White phosphor with black-on-white viewing option. In-

cludes tilt/swivel base.

Panasonic TX-12H3P

Manufacturer: Type: color, RGB Screen Size: \$619.00 (US) Price:

Contrast, brightness controls. Built-in tilt & swivel base

Princeton HX-12E

Manufacturer: Princeton Type: color, RGB Screen Size: 12 inch Bandwidth: 18 Mhz **Available From:** MSW Marketing Price. \$1295.00 Brightness control. Includes cable.

Princeton HX-9E

Manufacturer: Princeton Type: color, RGB Screen Size: 9 inch Bandwidth: 20 Mhz Available From: MSW Marketing Price: \$1225 00

Cables included.

Princeton SR-12P

Manufacturer: Princeton color, RGB Type: Screen Size: 12 inch Bandwidth: 30 Mhz **Available From:** MSW Marketing \$1629.00

Uses 'analog' interface, gives infinite number of color combinations depending on controller card used.

QuadChrome Enhanced Display

Manufacturer: Quadram Type: color, RGB Screen Size: 13 inch **Available From:** Chevco Price: \$1295.00

Designed to support IBM EGA-compatible display, also works with CGA. Features built-in video cable, green/ amber monochrome switch, nonglare dark face screen, tilt/ swivel stand. Resolution up to 640x350, dot pitch 0.31 mm.

Quadchrome I

Manufacturer: Quadram color, RGB Type: Screen Size: 12 inch **Available From:** Chevco \$995.00

Front-mounted brightness control. Dot pitch .31 mm. Quadchrome II version has 14 inch screen, .43 mm pitch.

Quadscreen

Manufacturer: Quadram

Type: monocrhome, TTL Screen Size: 17 inch **Available From:** Chevco \$3325.00

Includes display adapter card with 128K RAM. Provides graphics resolution up 968x512 graphics. Text modes include 80x24, 120x42, 132x46 and 160x64. Supports inverse video, split screen, underlining, smooth forward

RGR 1400

Manufacturer: **RGB** Display color, RGB Type: \$595.00 (US) Price:

Many controls including color gain, horizontal and vertical

centering, etc. Redifinable color palettes.

Roland DG CD-240

Manufacturer: Roland Type: color, RGB Screen Size: 12 inch Bandwidth: 22 Mhz Available From: Amdek Price: \$1179.00

Cables included

Roland DG MA-121A/G

Manufacturer: Roland Type: monochrome, composite

Screen Size: 12 inch Randwidth: 18 Mhz **Available From:** Amdek Price: \$259.00

Amber version \$269

Sanyo CRT 30

Manufacturer: Sanvo

monochrome, composite Type:

Screen Size: 12 inch Bandwidth: 15 Mhz **Available From:** Sanvo Canada Price: \$195.00

Green phosphor.

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For more information CONTACT:

RAY CORNELL

Man-Tech Associates Inc.

1-800-265-8356

Sanyo DM 115

Manufacturer: monocrhome, TTL Type:

Screen Size: 12 inch Bandwidth: 18 Mhz **Available From:** Sanyo Canada Price: \$299.00

Green phosphor.

Sanyo DM 9212

Manufacturer:

Type: monochrome, composite

Screen Size: 12 inch Bandwidth: 18 Mhz Available From: Sanyo Canada Price: \$299.00

Available in white, green or orange phosphor.

Sanyo DMC 5500

Manufacturer: Sanyo

Type: color, composite Screen Size: 13 inch **Available From:** Sanyo Canada Price: \$495.00

Sanvo DMC 6600

Manufacturer: Sanyo color, RGB Type: Screen Size: 13 inch **Available From:**

Sanyo Canada Price: \$595.00

Sony Trinitron KV-1131CR Manufacturer: Sony Type: color, RGB

Price: \$655.00 (US) Combination TV and RGB monitor. Price includes digital

adaptor cable.

Sysdyne DF 1331

Manufacturer: Sysdyne Type: color, RGB **Available From:** ComputerLand Price: \$1385.00

Full color with standard IBM graphics and EGA support, plus selectable green or amber monochrome modes.

TVM 3 in 1

Manufacturer: TVM color, RGB Type: Screen Size: 14 inch Bandwidth: 14 Mhz Available From: Comptech Price: \$595.00 Cables included.

Tandy CM-2

Manufacturer: Tandy color, RGB Type: Screen Size: 13 inch Bandwidth: 15 Mhz Available From: Radio Shack Price: \$699 00

Tandy CM-4

Manufacturer: Tandy color, RGB Type: Screen Size: 13 inch Bandwidth: 15 Mhz Available From: Radio Shack Price: \$459.00

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game port, realtime clock)\$125.00	* TVM 3D-RGB color/green/amber \$550.00
- 256K mother board no BIOS \$230.00	3-IN-1 High resolution monitor
- Serial port	* Mouse with software \$ 95.00
- Parallel port \$ 30.00	* Joystick with auto centre \$ 34.95
- 384K multi function card OK RAM \$145.00	* ACC-303 Modem phone (300 baud) . \$109.00

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* Prices subject to change without notice. Importer & Distributor.

Dealers enquiries welcome.

Monitors

Generic

Tandy VM-3

Manufacturer:

Tandy

Type: monochrome, composite

Screen Size: 12 inch Bandwidth: 20 Mhz Available From: Radio Shack Price: \$299.00

Green phosphor.

Tandy VM-4

Manufacturer:

Type: monochrome, composite

Screen Size: 12 inch Bandwidth: 15 Mhz Available From: Radio Shack Price: \$230.00

Green phosphor.

Tatung CM-1322

Manufacturer: Tatung color, RGB Type: Screen Size: 13 inch

Bandwidth: 12 Mhz

Available From: Gentek, Micro Computech

\$549.00 Price:

Dark tinted screen, selectable amber or green monochrome display modes. Cables included

Tatung MM-1222

Manufacturer: Tatung

monocrhome, TTL Type:

Screen Size: 12 inch Bandwidth: 22 Mhz

Available From: Gentek, Micro Computech

\$175.00 Price:

Dark tinted CRT, amber phhosphor. Cables included.

Taxan 121/2

Manufacturer: Taxan

monocrhome TTL Type: Screen Size: 12 inch

Bandwidth: 20 Mhz Available From: Compuserve Price: \$292.00

Available in green or amber versions.

Taxan 600 (series)

Manufacturer: Taxan Type: color, RGB Screen Size: 12 inch Bandwidth: 15 Mhz Available From: Compuserve \$825.00

Available with bandwidths from 15 to 22 Mhz, prices

ranging up to \$1250.

Taxan 640

Manufacturer: Type: color, RGB Screen Size: 12 inch Bandwidth: 22 Mhz **Available From:** Compuserve Price: \$1228.00

Tecmar High-Resolution Color

Manufacturer: Tecmar color, RGB Type: **Available From:** EMJ, Ingram Price: \$1295.00

Provides high-persistence, high-resolution image for use with display adapters such as the Tecmar Graphics Master.

Thomson CM 31311 SI

Manufacturer: Thomson Type: color, RGB Screen Size: 12 inch Bandwidth: 14 Mhz

Available From: Noresco Canada Price: \$1099.00

Tinted, non-glare glass, front mounted controls, green/ amber monochrome modes switch selectable. Dot pitch

0.31 mm. Cables included.

Thomson CM 31481 VI

Manufacturer: Thomson Type: color, RGB Screen Size: 12 inch Bandwidth: 14 Mhz Available From: Noresco Canada

Price: \$829.00

RGB and composite inputs, compatible with NTSC video recorders, etc. Tinted glass, front-mounted controls, integral speaker, green monochrome mode. Dot pitch 0.48 mm blackstripe.

Thomson CM 36432 SI, CM 36382 SI

Manufacturer: Thomson color, RGB Type: Screen Size: 14 inch Bandwidth: 12 Mhz Available From:

Noresco Canada Price: \$929 00

Tinted glass, front-mounted controls, green/amber modes switch selectable, integral speaker. Dot pitch 0.43/0.38 mm. Cables included. CM 36382 \$999

Thomson CM 36512 VI

Manufacturer: Thomson Type: color, RGB Screen Size: 14 inch Bandwidth: 12 Mhz Available From: Noresco Canada Price: \$800.00

Accepts either RGB or NTSC composite input, compatible with VCR, etc. Integral speaker, switch selectable green monochrome mode. Dot pitch 0.51 mm, blackstripe.

Thomson CM 36632 V

Manufacturer: Thomson Type: color, composite Screen Size: 14 inch Bandwidth: 12 Mhz Available From: Noresco Canada Price: \$350.00

Tinted glass, integral speaker. Takes NTSC video signal, compatible with video recorders, etc. Dot pitch 0.63 mm,

blackstripe, suitable for 40-column text.

Thomson VM 3102 VG/VA

Manufacturer: Thomson

Type: monochrome, composite

Screen Size: 12 inch 35 Mhz Bandwidth: Available From: Noresco Canada

\$299.00

Flat-face tube gives 20% larger display than standard tube, green or amber short-persistence phosphor, tinted nonglare glass, integral speaker.

Thomson VM 3107 IG/IA

Manufacturer: Thomson Type: monocrhome, TTL Screen Size: 12 inch

Bandwidth: 35 Mhz **Available From:** Noresco Canada Price:

\$309 00

Flat face tube, 20% larger image than standard tube, medium-persistence green or amber phosphor, tinted nonglare glass, supports 16 shades. Cables included.

Verticom CD-1

Manufacturer: Verticom Type: color, RGB Screen Size: 13 inch Bandwidth: 27 Mhz

Available From: Computech Micro Design

Price: \$1695.00

Cables included.

Wyse WY-500

Manufacturer: Wyse

monocrhome, TTL Type:

Screen Size: 14 inch Bandwidth: 20 Mhz **Available From:** CDI \$395,00 Price:

Green phosphor, 80x25 TTL monochrome text. Brightness control, etched nonglare screen, swivel base.

Wyse WY-620

Manufacturer: Wyse Technology Type: color, RGB Screen Size: 14 inch Bandwidth: 18 Mhz **Available From:** CDI Price: \$965.00

Brightness control, 16 colors, tilt/swivel base, fully PC

compatible. Cables included.

Wyse WY-700

Manufacturer: Wyse

Type: monochrome, composite

Screen Size: 15 inch Bandwidth: 50 Mhz Price: \$1595.00 (US)

Includes special video card, displays 1280x800 pixel graphics, up to 160x50 text, as well as standard IBM CGA and MDA displays. Colors mapped onto 4 shades of gray.

White phosphor, tilt/swivel base

Y.JE 1211G, 1211A Manufacturer:

YIF Type:

monochrome, composite Screen Size: 12 inch

Bandwidth: 20 Mhz Available From: Gentek Price: \$139.00

Front-mounted brightness, contrast controls, rearmounted hold, linearity and size controls. Integrated tilt/ swivel base. YJE 1211A amber version \$149.

Yanien GM-1000

Manufacturer: Yanjen

Type: monocrhome, TTL

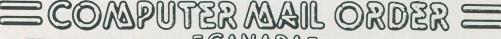
Screen Size: 12 inch Bandwidth: 18 Mhz Available From: Yanjen Price: \$249.00

Non-glare screen, green or amber, with 9-pin DB9 cable to plug directly into PC monochrome adaptor. Front mounted controls.

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Graphics Edge\$449.00	130 XE	Smartmodem 300 \$235.00	Smart Cat 1200B \$435.00
The Edge (mono/colour)\$410.00	520ST, DD Colour Monitor \$1,149.00	Smartmodem 1200	
DISK DRIVE (IBM)	7097 Atari Logo (included) \$ 95.00	Smartmodem 1200B	ZENITH
Tandon (full & ½ height) \$129.00	4018 Pilot (Home)	Smartmodem 2400 \$985.00 Micromodem IIe \$239.00	
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Crammadana	APPLE IIe/IIc/Mac CALL	310 Amber IBM \$229.00	CRT-80
Ckcommodore	APPLE/FRANKLIN		CRT 6660 14" Color TTL \$519.00
Commodore 64	DISK DRIVES		CRT 1151 12" Green/Amber \$239.00 CRT 41 12" Amber \$285.00
Commodore 64	MICRO SCI	NEC 1216 12" BGR TTI \$449.0	CRT 50 13" Colour \$419.00
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Magic Voice Speech Module \$ 85.00	The Consultant DBMS \$ 75.00	MAX-12E Amber	
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Computer Mail Order Canada 2505 Dunwin Drive, Unit 3 Mississauga, Ontario L5L 1T1

Monitors

Generic

Yanjen GM-1201

Manufacturer: Yanjen Type: n/a Screen Size: 12 inch Bandwidth: 18 Mhz **Available From:** Yanjen Price: \$169.00

Available in amber or green phosphor.

Yanjen GM-1211

Manufacturer: Yanjen

Type: monochrome, composite

Screen Size: 12 inch Bandwidth: 20 Mhz **Available From:** Yanjen \$179.00

Amber, green or special 'chocolate' phosphor, with smoke filter, tilt & swivel stand. Front mounted controls. Amber

version \$189.

Zenith ZVM-1220A

Manufacturer:

monochrome, composite Type:

Screen Size: **Bandwidth: Available From:** Zenith \$135.00

Amber phosphor

Zenith ZVM-1230A

Manufacturer: Zenith

monochrome, composite Type: Screen Size:

Bandwidth: 15 Mhz

Available From: Computech Micro Design

Price:

Green phosphor.

Zenith ZVM-124

Manufacturer:

Type: monocrhome, TTL Screen Size: 12 inch

Bandwidth: 22 Mhz

Available From: Computech Micro Design

\$229.00 Price: Amber phosphor. Cables included.

Zenith ZVM-131

Manufacturer:

monochrome, composite Type:

Screen Size: 13 inch **Available From:** Exceltronix \$479.00 Composite and RGB interface

Zenith ZVM-133

Manufacturer: Zenith color, RGB Type: Screen Size: 13 inch Bandwidth: 20 Mhz Available From: Exceltronix \$759.00

Zenith ZVM-135

Price:

Manufacturer: Zenith color, RGB Type: Screen Size: 13 inch **Available From:** Exceltronix \$787.00 Price:

RGB and composite interface.

Zenith ZVM-136

Manufacturer: Zenith color, RGB Type: Screen Size: 13 inch Bandwidth: 20 Mhz Available From: Exceltronix Price: \$1195.00

MODEM SECTION



ACC MD-212A

Manufacturer: ACC Maximum Rate: 1200 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** Interface: RS-232 Compatibility: Hayes AMIES Inc **Available From:** \$295.00

Access Series 24S

Manufacturer: Gandalf Maximum Rate: 2400 baud **Auto Answer:** ves **Auto Dial:** yes **Direct Connect:** ves Interface: RS-232 Compatibility: Haves **Available From:** Gandalf Price: \$840.00

Apple Modem

Manufacturer: Apple Maximum Rate: 1200 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** yes RS-232 Interface: Available From: Apple \$695.00

Includes CompuServe DemoPak and Premium Pac from

Modems

Generic

Atari XM301

Manufacturer: Atari Maximum Rate: 300 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** yes Interface: RS-232 **Available From:** Atari

\$74.95 Atari-specific interface. Includes XEterm software, supports upload/download, auto dialing from the keyboard, internal phone directory.

Avatex 1200

Price:

Manufacturer: E&E DataComm **Maximum Rate:** 1200 baud **Auto Answer:** yes Auto Dial: yes **Direct Connect:** Interface: RS-232 **Available From:** Compuserve

\$399.00

Avatex 300

Price:

Manufacturer: E&E DataComm **Maximum Rate:** 300 baud **Direct Connect:** RS-232 Interface: **Available From:** Compuserve Price: \$145.00

CTS 2424AH

Manufacturer: CTS DataComm **Maximum Rate:** 2400 baud Auto Answer: ves **Auto Dial:** yes **Direct Connect:** yes Interface: RS-232 Compatibility: Hayes Available From: Network Micro \$649.00 Features auto adaptive equalization.

Commodore 1670 Modem/1200

Manufacturer: Commodore Maximum Rate: 1200 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** Interface: RS-232 Compatibility: Hayes **Available From:** Commodore \$299.00 Includes one hour free CompuServe time

Courier 2400 Manufacturer: **USRobotics** Maximum Rate: 2400 baud **Auto Answer: Auto Dial:** yes **Direct Connect:** Interface: RS-232 Compatibility: Hayes Available From: Canada Remote \$769.00 Price:

Internal version also available

DC 2212

Manufacturer: Tandy **Maximum Rate:** 1200 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** yes Interface: RS-232 **Available From:** Radio Shack Price: \$599.00 Menu driven operation.

DCM₃

Manufacturer: Tandy **Maximum Rate:** 300 baud **Direct Connect:** RS-232 Interface: Available From: Radio Shack \$89.95 Price:

DCM 5

Manufacturer: **Maximum Rate:** 300 baud **Auto Answer:** ves Auto Dial: yes **Direct Connect:** Interface: RS-232 **Available From:** Radio Shack \$199.95 Features full programmability

DF 124

Manufacturer: Digital Equipment Maximum Rate: 2400 baud **Auto Dial:** yes **Direct Connect:** Interface: RS-232 Available From: Digital Equipment \$1393.00 Available in Desktop, Multiple-Modem enclosure and Sta-

tistical Multiplexer models

DF 126

Manufacturer: Digital Equipment Maximum Rate: 2400 baud **Auto Answer:** yes **Auto Dial:** yes **Direct Connect:** Interface: RS-232 **Available From:** Digital Equipment \$1393.00 Price:

DF 127

Manufacturer: Digital Equipment **Maximum Rate:** 4800 baud **Direct Connect:** Interface: RS-232 **Available From:** Digital Equipment Price: \$3180.00

For private line use only, auto-answer and auto-dial not

required.

DF 129

Digital Equipment Manufacturer: **Maximum Rate:** 9600 baud **Direct Connect:** Interface: RS-232

Available From: Digital Equipment

Price: \$4735.00

For private line use only, auto-answer and auto-dial not required.

DF 224-AA Scholar Modem

Digital Equipment Manufacturer: Maximum Rate: 2400 baud

Auto Answer: yes **Auto Dial:** yes **Direct Connect:** yes Interface: RS-232

Available From: Digital Equipment \$1237.00 Price:

Includes software

EMP Auto 1200A

Manufacturer: **EMP Memory Products** Maximum Rate: 1200 baud

Auto Answer: yes **Auto Dial:** yes **Direct Connect:** yes Interface: RS-232

Available From: Mark Gee Enterprises

Price:

EMP Auto 1200B

EMP Memory Products Manufacturer: Maximum Rate: 1200 baud Auto Answer: ves

Auto Dial: yes **Direct Connect:** yes Interface: Compatibility: Hayes Available From:

Mark Gee Enterprises

Price: \$399.00

EMP MM-101

Manufacturer: **EMP Memory Products** Maximum Rate: 300 baud

Auto Answer: yes **Direct Connect:** ves Interface: RS-232

Available From: Mark Gee Enterprises

Price:

GDC 212A/ED+

Manufacturer: General DataComm **Maximum Rate:** 1200 baud **Auto Answer:** yes **Auto Dial:** yes **Direct Connect:** ves RS-232 Interface: Compatibility: Hayes

Available From: General DataComm \$1003.00

Price:

GDC Acculin 1200IM

Manufacturer: General DataComm Maximum Rate: 1200 baud

Auto Answer: yes **Auto Dial:** yes **Direct Connect:** Interface: RS-232 Compatibility: Hayes

General DataComm Available From:

\$799.00

Living Communications software optional.

Modems

Generic

GDC Acculin 2400IM

Manufacturer: General DataComm

Maximum Rate: 2400 baud

Auto Answer: yes Auto Dial: ves **Direct Connect:** Interface: RS-232 Compatibility: Hayes

General DataComm Available From:

\$1295.00 Price:

Uses I-synch operation. Living Communications software

optional.

GDC Acculin 300IM

General DataComm Manufacturer: Maximum Rate: 300 baud

Auto Answer: yes Auto Dial: ves Direct Connect: RS-232 Interface: Compatibility: Hayes

General DataComm **Available From:**

\$449.00 Price:

Living Communications software optional

GVC Super Modem 1200

Manufacturer: GVC 1200 baud Maximum Rate: Auto Answer: yes

Auto Dial: ves **Direct Connect:** ves RS-232 Interface: Compatibility: Haves

Available From: Gentek Marketing

\$289.00 Price:

GVC Super Modem 2400

Manufacturer: Maximum Rate: 2400 baud Auto Answer: ves **Auto Dial:** ves **Direct Connect:** ves

RS-232 Interface: Compatibility: Haves

Available From: Gentek Marketing \$689.00

Price:

Maxwell Modem 1200V

Manufacturer: Racal-Vadic Maximum Rate: 1200 baud **Auto Dial:** yes **Direct Connect:** RS-232 Interface:

Canadian General Electr **Available From:**

\$499.00

Maxwell Modem 2400V Manufacturer: Racal-Vadic **Maximum Rate:** 2400 baud **Auto Dial:** yes

Direct Connect: Interface: RS-232 Compatibility: Hayes

Available From: Canadian General Electr

Price: \$895.00 **Novation 2400 Professional**

Novation Manufacturer: Maximum Rate: 2400 baud Auto Answer: ves Auto Dial: yes

Direct Connect: Interface: Compatibility: Haves

Available From: Future Electronics

\$1280.00 Price:

With software, \$1441.

Password

Manufacturer: **USRobotics** Maximum Rate: 1200 baud **Auto Answer:** yes **Auto Dial:** yes **Direct Connect:** RS-232 Interface: Compatibility: Hayes

Available From: Canada Remote Systems

Price:

Racal-Vadic 2400PC Full-Duplex

Racal-Vadic Manufacturer: Maximum Rate: 2400 baud **Auto Dial:** yes **Direct Connect:** RS-232 Interface:

Canadian General Electr Available From:

\$895.00 Price: Modem Manager software built in

SPM-94C

Coherent Communications Manufacturer:

1200 baud Maximum Rate: **Direct Connect:** RS-232 Interface:

Louis Albert Associates **Available From:**

\$1640.00 Price:

Features half-duplex, simultaneous voice/data transfer.

Secure 12

Manufacturer: Anchor Automation **Maximum Rate:** 1200 baud

Auto Answer: yes **Auto Dial:** yes **Direct Connect:** Interface: RS-232 Compatibility: Hayes **Available From:** Computron Price: \$749 00

Includes password callback, three levels of security built

into firmware.

Signalman Express

Manufacturer: Anchor Automation **Maximum Rate:** 1200 baud

Auto Answer: yes Auto Dial: yes Direct Connect: Interface: RS-232 Available From: Computron \$599.00 Price:

Signalman Lightning 24

Manufacturer: Anchor Automation

Maximum Rate: 2400 baud Auto Answer: ves Auto Dial: yes Direct Connect: ves RS-232 Interface: Available From: Computron Price: \$899.00

SmarTEAM 103/212A

Team Technology Manufacturer: 1200 baud Maximum Rate:

Auto Answer: yes Auto Dial: ves **Direct Connect:** yes RS-232 Interface: Compatibility: Hayes Budgetron, EMJ Available From:

\$459.00 Price:

SmarTEAM 2400

Manufacturer: Team Technology Maximum Rate: 2400 baud

Auto Answer: ves **Auto Dial:** yes **Direct Connect:** ves Interface: RS-232 Compatibility: Haves **Available From:** Budgetron \$995.00 Price:

Smart Talker ST-1200H

Manufacturer: Straddle Technologies

Maximum Rate: 1200 baud **Auto Answer:** yes **Auto Dial:** ves **Direct Connect:** yes Interface: RS-232 Compatibility: Hayes Available From: SGV Marketing

Price: \$816.00

Includes software in ROM, features Hayes emulation mode.

\$995.00

\$1495.00

\$345.00

Smartmodem 1200 Manufacturer: Haves **Maximum Rate:** 1200 baud Auto Answer: ves **Auto Dial:** ves Direct Connect: RS-232 Interface: Compatibility: Haves Available From: Compuserve

Smartmodem 2400

Price:

Price:

Price:

Manufacturer: Haves Maximum Rate: 2400 baud **Auto Answer:** ves **Auto Dial:** yes **Direct Connect:** ves Interface: RS-232 Compatibility: Haves Available From: Compuserve

Smartmodem 300

Manufacturer: Hayes **Maximum Rate:** 300 baud Auto Answer: yes **Auto Dial:** ves **Direct Connect:** yes RS-232 Interface: Compatibility: Hayes Available From: Compuserve

Modems

Generic

Manufacturer: TEO Maximum Rate: 1200 baud Auto Answer: yes Auto Dial: yes

Direct Connect: ves Interface: RS-232 Compatibility: Haves

TEO Computers Available From: \$499.00 Price:

Includes software and cable.

TRS-80 Modem AC-4 Manufacturer: Tandy Maximum Rate: 300 baud Interface: RS-232 Available From: Radio Shack Price: \$179.00

Acoustic coupler

VA212LC

Manufacturer: Racal-Vadic Maximum Rate: 1200 baud **Auto Answer:** yes **Direct Connect:** yes

Interface: RS-232 **Available From:**

Canadian General Electr Price: \$650.00

VA212PA Auto-Dial

Manufacturer: Racal-Vadic Maximum Rate: 1200 band Auto Dial: yes **Direct Connect:** ves Interface: RS-232

Available From: Canadian General Electr

Price: \$1065.00 Built-in password security.

VA2400PA

Manufacturer: Racal-Vadic Maximum Rate: 2400 baud Direct Connect:

Interface: RS-232 Available From: Canadian General Electr

Price: \$1200.00

VA4840

Manufacturer: Racal-Vadic Maximum Rate: 4800 baud **Direct Connect:** Interface: RS-232

Available From: Canadian General Electr

\$1995.00 Price:

Includes own power supply

Ven-Tel 1200 Plus

Manufacturer: Ven-Tel Maximum Rate: 1200 baud Auto Answer: yes Auto Dial: ves **Direct Connect:** Interface: RS-232 Compatibility: Hayes

Available From: Canada Remote Systems

Price: \$558.00

Volks Mini

Manufacturer: Anchor Automation Maximum Rate: 1200 baud Auto Answer: ves **Direct Connect:** Interface: RS-232 Available From: Computron

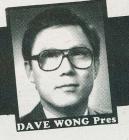
Price: \$299.00

Connects to any recent touch-tone telephone

Volksmodem 12

Manufacturer: Anchor Automation Maximum Rate: 1200 baud

Auto Answer: yes Auto Dial: **Direct Connect:** Interface: RS-232 Available From: Computron Price: \$449.00



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COMPLETE TURBO XT KIT:

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MUSIC SECTION



Hardware

CX5M Remote Keyboards

Function: Keyboard Manufacturer: Yamaha Canada \$350.00 Price: Computers: Yamaha CX5M Requires: CX5M computer.

Description: The Yk-20 is a full-sized keyboard with 49 keys, turns the CX5M computer into a performance synthesizer. Also available is YK-01 mini version, \$195.

AX-60 Six-Voice Polyphonic Synthesizer

Function: Synthesizer, Keyboard Akai Canada

Manufacturer: Price: \$1395.00

any MIDI-equipped computer Computers:

Requires: MIDI interface

Description: A 61-key, 5-octave split keyboard. Takes 64 sound programs and 8 split presets.

Alpha Juno-2

Function: Synthesizer Manufacturer: Roland Canada Price: \$1895.00

Computers: any MIDI-equipped computer Description: A polyphonic synthesizer, can control several MIDI instruments at once. Juno-1 version \$1295.

CX-5000 Synthesizer

Function: Keyboard, Synthesizer

Manufacturer: Casio \$1995.00 Price:

Computers: any MIDI-equipped computer Requires: Cassette player (optional). Description: The playability of a full-sized 61-key key-

board combined with a built-in 8-track digital sequencer. Stores timbres in 32 ROM and 32 RAM memories.

CX5M Micro Floppy Disk Drive

Function: Storage Device Manufacturer: Yamaha Canada \$495.00 Price: Computers: Yamaha CX5M Requires: Interface, \$200.

Description: Uses 3-1/2 inch, double-sided double-density microfloppy disks. MSX-BASIC built-in. Replaces cassette player as program storage device.

CX5M Music Computer

Function: Computer Manufacturer: Yamaha Canada \$695.00 Price: FM Sound Synthesizer; YK-01 or

Requires: YK-10 keyboard; monitor;

amplifier.

Description: Eight-bit micro specifically designed for performers, composers, arrangers. Offers 46 preprogrammed 8 polyphonic FM voices, subset in mono form, expandable, playable in any combination. Auto bass, rhythm, chords. Supports DX programming.

CZ-1000 Standard Keyboard

Function: Synthesizer, Keyboard Manufacturer: Casio

Computers: any MIDI-equipped computer Description: Standard-sized keyboard version of the

CZ-101

CZ-101 Mini Keyboard

Function: Synthesizer, Keyboard

Manufacturer: Casio Price: \$699.00

Computers: any MIDI-equipped computer Description: Features 49 keys, 4 octaves. Allows 16 preset and 16 programmable banks of tone memories. RAM

cartridges available.

Chroma MIDI Converter

Function: MIDI Interface Kit Manufacturer: Syntech

Price: \$749.00

Description: A complete MIDI implementation for the Rhodes Chroma. Features 16 programmable MIDI functions, plus complete compatibility with the Fender/Apple

Music System.

Chroma Music System Interface Kit

Function: MIDI Interface Kit Manufacturer: Fender Musical Instruments

Price: \$735.00 Computers: Apple II Requires: Interfaces.

Description: Interface kit to be used with any Chroma

products.

Chroma Polaris

Function: Synthesizer

Manufacturer: Fender Musical Instruments

Price: \$2995.00 **Computers:** Apple II Requires:

Cassette player (optional). Description: Polyphonic synthesizer featuring hybrid analog/digital design. Multi-timbral, allows programmable

keyboard splitting, voice linking, polyphonic sequencing.

DDR-30 Digital Drums System

Function: Drum Synthesizer, Pads Manufacturer: Roland Canada

\$2945.00 Price:

Description: Includes 2 kinds of drum pads, for 6 drum voices: bass, snare and toms. Gives the equivalent of 96

separate 6-voice drum kits.

DX-100

Function: Synthesizer Manufacturer: Yamaha Canada

Price:

any MIDI-equipped computer Computers:

MIDI interface Requires:

Description: Digital programmable algorithm synthesizer, with 4 operators and editable preset voices. A

scaled-down version of the DX-7.

Function: Synthesizer, Keyboard Manufacturer: Yamaha Canada Price:

Computers: any MIDI-equipped computer Description: A MIDI keyboard and music system. Features 32 internal voices, with 16-note polyphony.

Deep Magic Sound Libarary (series)

Sound Librarie: Manufacturer: Deep Magic Music Price: \$30.00 (US)

Synthesizer, cassette player. Description: Set of sound libraries for all Korg synthesizers (except Trident), SCI Prophet-600, Moog Source. Price per set varies, up to about \$60 US.

Drumpulse

Function: Sound Libraries Manufacturer: Drumpulse Price: \$14.95 (US) Requires: Cassette recorder.

Description: A library of 7 different rhithm programs for various drum computers, such as the Yamaha RX-11 and RX-15, Sequential Drum Traks, Tom, Korg Super Drums, and ROland TR-707

Function: MIDI Interface Kit Manufacturer: Grey Matter Response

Price: \$799.00

any MIDI-equipped computer Computers:

Requires: DX-7

Description: ROM/RAM upgrade kit for DX-7, implements latest MIDI specifications including such features as MIDI merge and 4 kinds of keyboard split.

EM-101 Sound Plus

Function: Synthesizer Manufacturer: Roland Canada \$550.00 Price:

Description: Compact 8-voice polyphonic MIDI sound module especially for use with MIDI compatible Piano Plus electronic pianos. Offers 16 preset sounds: 8 ensemble and 8 solo. Attack and velocity sensitivity can be varied using slider controls.

Emulator II

Function: Synthesizer, Keyboard Manufacturer: E-mu Systems

Price: \$11000.00

any MIDI-equipped computer Computers: Second floppy drive or Winchester hard disk (optional). Requires:

Description: A polyphonic digital sampling keyboard with 5-octave, 61-key range, and up to 60 programmable splits. One double-sided, double-density floppy disk drive is built-in.

Forte MIDI-Mod

Function: MIDI Interface Kit Manufacturer: Forte Music Price:

Yamah pf-series electronic pianos, Requires: acoustic grand piano or other type.

Description: An internally-installed modification, allows control of any MIDI compatible synthesizer, sequencer or accessory directly from the keyboard of acoustic or electric grand piano. Yamaha pf-series pianos as shown. Acoustic grand pianos \$2160

G-77 MIDI Bass

Function: Synthesizer Manufacturer: Roland Canada \$1550.00 Price:

any MIDI-equipped computer Description: Both a stand-alone instrument and a MIDI device. Can be controlled with the GR-77B Synthesizer.

GR-700 Guitar Synthesizer System

Function: Synthesizer Manufacturer: Roland Canada \$2995.00 Price:

Description: Polyphonic synthesizer with MIDI outjack, combining expressiveness of the electric guitar with flexibility of a keyboard synthesizer. Memory for up to 64 sounds, has String Select, Dynamics and complete Chromatic Scale functions.

Hardware

GR-77B Synthesizer

Function: Synthesizer Manufacturer: Roland Canada \$2250.00 Price:

any MIDI-equipped computer Computers: Description: Bass guitar synthesizer, meant to be played with the feet, leaving the hands free for the guitar.

Genesys I Digital Synthesizer Board

Synthesizer **Function:** Manufacturer: Mimetics \$1465.00 Price: Computers: Apple II

Description: A powerful 16-oscillator sound synthesis system. Compatible with Classic/Alpha-Syntauri keyboards and Proxima software.

JamBox/4

Function: MIDI Interface Kit Manufacturer: Southworth Music Systems Price: \$389.00 (US)

Computers: Macintosh, Commodore 64, Atari

Description: A MIDI/SMPTE interface.

K3 Digital Wave Memory Synthesizer

Function: Synthesizer Manufacturer: Kawai Price: \$1795.00

Computers: any MIDI-equipped computer Description: Stores programs and waveforms in RAM/ ROM cartridge, allows assignment of 33 digital wave-

forms to either of 2 digital oscillators.

KX Series Digital Electronic Organ

Function: Synthesizer Manufacturer: Kawai \$8795.00 Price:

any MIDI-equipped computer Computers: Description: MIDI-equipped keyboards can be added to expand voicing options. Features Auto Play Orchestra with 128 preprogrammed accompaniment patterns (64 on KX-1000), plus Program Sequencer. KX-1000 as shown. KX-2000, \$10,995. KX-5000, \$13,995.

Kurzweil 250 Advanced Sampler

Function: Keyboard

Kurzweil Music Systems Manufacturer: Price: \$20000.00

Computers: Macintosh

Requires: 512K RAM (recommended);

MacAttach Communications

Package

Description: Piano-type velocity-sensitive keyboard, with 88 wooden keys. Features built-in 12-track sequencer, plus Contoured Sound Modeling sampling technology. Price ranges up to \$25,000.

LX-9 MIDI Controller

Function: MIDI Controller Manufacturer: Voyce Music \$595.00 Price:

Computers: any MIDI-equipped computer
Description: Controls up to 9 different MIDI devices from
one keyboard, features advanced MIDI processing functions. LX-4 4-channel version also available, \$395 US.

Lehrware Sounds Library

Function: Sound Library Manufacturer: LehrWare Price: \$150.00

Requires: Classic Music Computer system. Description: Provides 100 new sounds, both sampled and synthetic. Includes orchestra strings, winds, exotics, bells, voices, natural sounds, solo drums, and FM.

MC-500 Micro Composer

Function: Sequencer Manufacturer: Roland Canada \$1995.00 Price:

Computers: any MIDI-equipped computer Description: A realtime sequencer, can control any MIDI sound module. Has 4 recording tracks and a 2-line LCD display for data editing. Can use 3-1/2 inch microfloppy

disks for external storage.

ME-10D Delay Unit

Function: Digital Delay Manufacturer: Akai Canada Price: \$249.00

Computers: any MIDI-equipped computer

Requires: Interface

Description: Creates a digital delay free off analog conversion. Delays signals by up to 1000 ms.

ME-15F MIDI Fader

Function: Fader Manufacturer: Akai Canada Price: \$249.00

Computers: any MIDI-equipped computer Description: A multifunction support unit, can vary the dynamics between various source and delay signals, and

can also be used as a channel checker.

ME-20A Arpeggiator

Function: Arpeggiator Manufacturer: Akai Canada Price: \$249.00

Computers: any MIDI-equipped computer * Description: Allows playing of 128 notes in either direction, and can also sequence arpeggios.

MG-1212

Function: Recorder, Mixer Manufacturer: Akai Canada \$10500.00 Price:

any MIDI-equipped computer Computers: Description: A 12-channel mixer and recorder. Features the SGX Multi-Channel Head and DBX dynamic noise reduction system. Uses half-inch audio cassette tape.

MIDI Pro Interface

Function: MIDI Interface Kit Manufacturer: Passport Designs \$299.95 (US) Price: Apple II Computers:

Description: For Apple //c only. Incorporates full sync capabilities including MIDI In/Out, Clock In/Out, Tape Sync In/Out. Software based, allows upgrades and full system expansion. Supported by full line of Passport software for the //c.

MIDI Pro Interface

Function: MIDI Interface Kit Manufacturer: Passport Designs Price: \$299.95 (US) Computers: Apple II

Toolkit software, \$25 US Requires: (optional).

Description: MIDI interface for Apple IIc. Includes MIDI

in/out, clock in/out and tape sync in/out.

MIDI-Timecode-Tape Synchronizer

Function: Synchronizer Manufacturer: HI TEC \$969.00

Multi-track tape recorder, MIDI Requires:

device with songpointer. Description: Incorporates MIDI merger, allowing real-

time input while syncing to tape.

MIDIBOARD

Function:

Manufacturer: Kurzweil Music Systems

Price: \$3995.00 Computers: Macintosh

Requires: 512K RAM (recommended);

MacAttach Communications

Description: MIDI controller with 88 wooden keys, velocity and impact sensitive, features Polyphonic Key Pressure Sensitivity to control brightness, tremolo, pitch or any other contour. Requires MacAttach Communications Package. Fat Mac recommended.

MKB (series) Keyboard Controllers

Function: Keyboard Manufacturer: Roland Canada \$1350.00 Price:

Description: Allow MIDI channels to be assigned individually for upper and lower parts as well as the operation mode. Store up to 128 programs for settings of all frontpanel controls except Bender. MKB-200 as shown. MKB-300, \$1750. MKB-1000, \$3495.

MKS-7 Super Quartet

Function: Synthesizer Manufacturer: Roland Canada \$1995.00

Description: Sound module consisting of 2-voice polyphonic melody, 4-voice polyphonic chord, monophonic bass, and rhythm sections. All sections respond to MIDI velocity messages. Combines MKS-7 with a computer via MPU-401 MIDI Processing Unit.

MPU-401 Processor and Interface

Function: MIDI Interface Kit Manufacturer: Roland Canada Price: \$480.00 Computers: Apple II, IBM

Requires: Appropriate interface cables. Description: Intelligent MIDI processing unit with tape sync and pluse code interfaces. Includes either MIF-IPC or MIF-APL interface card.

MPX820

Function: Manufacturer: Akai Canada Price: \$3295.00

Requires: Cassete recorder; Compu-Edit software (optional).

Description: Fully programmable 8-channel mixer, housed in a 7U EIA rackmountable frame. Can be slaved with up to 7 other MPX820s to offer up to 64 channels of automated mixdown.

MSQ MIDI Digital Keyboard Recorder

Function: Recording Device Manufacturer: Roland Canada Price: \$995.00 Requires: Cassette player.

Description: Memorizes and reproduces in detail all information required for musical performances, such as key velocity, key pressure, or bender operation. Features both step and realtime loading methods. Data can be stored on cassette tape.



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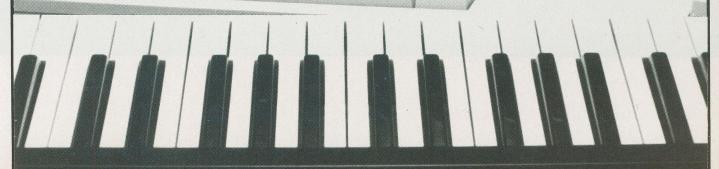
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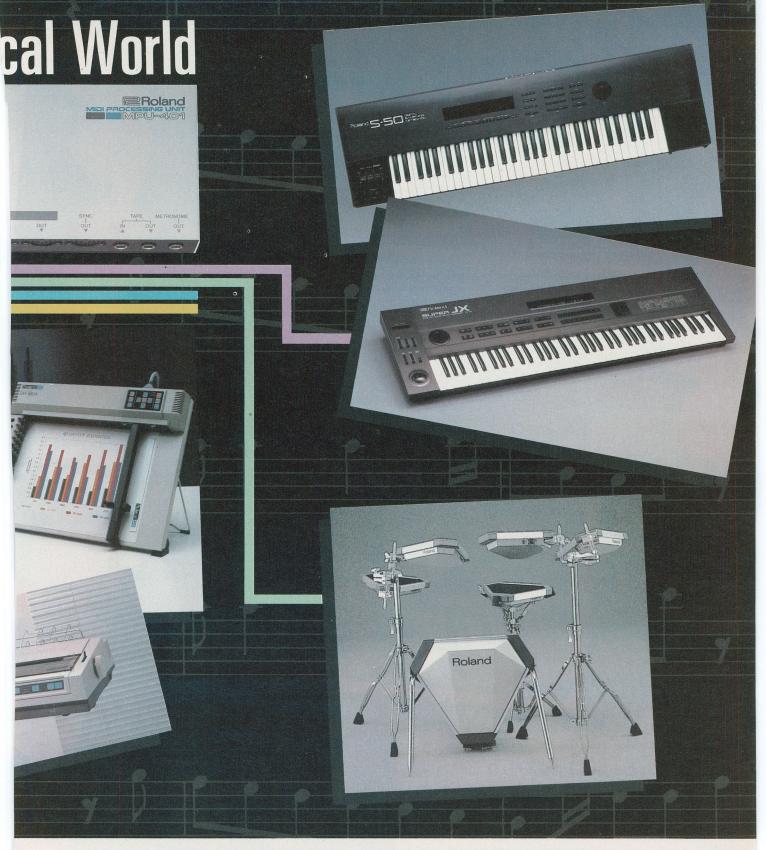
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Hardware

MSX Mouse

Function: Computer Controller Manufacturer: Yamaha Canada \$149.00 Price: Yamaha CX5M Computers:

CX5M or other MSX computer Requires: Description: Rodent controller for CX5M or other MSX

computer and appropriate software.

MX73 Master Keyboard Controller

Function: Keyboard Manufacturer: Akai Canada \$1195.00

Description: A full 6-octave, 73-note, velocity-sensity master keyboard. Features an extensive array of MIDI

performance and control parameters.

Metawave

Function: Sound Editor Manufacturer: LehrWare Price: \$150.00

Classic Music Computer systems. Requires:

ADA Digital Sampling card

(suggested).

Description: A utility program containing a variety of sophisticated soundmaking tools, allowing complex waveforms to be designed, manipulated, listened to in real time, and stored for use in other Classic programs.

Midiverb

Function: Digital Reverb Manufacturer: Alesis \$795.00 Price:

Description: Offer 63 digital reverb presets, featuring

MIDI patch change

Mirage Digital Sampling Keyboard

Function: Synthesizer, Keyboard Ensoniq Manufacturer: Price: \$2795 00

Computers: Apple II

Requires: Passport-compatible Apple/MIDI

card, 2 MIDI interconnect cables.

Description: Features on-board sequencer, multi-overdub capability, can play or record from external MIDI equipment. Requires Apple IIe with 80-column card. Rackmount version, \$2395

Music Mate Keyboard

Function: Synthesizer, Keyboard Sequential Circuits Manufacturer: Price: \$89 99 Computers: Commodore 64

Description: Covers two and a half octaves, features ability to play 3 notes simultaneously, record and play back, 8

instruments preset, use of joystick.

Music Synthesizer System Function: Synthesizer Manufacturer: Tecmar Price: IBM Computers:

Disk drive, 256K of RAM, graphic Requires:

display adapter.

Description: Internal sound source, creates the appearance of up to 16 independent synthesizers, called 'slots', Slot parameters include MIDI channel, instrument, volume, control keyboard splits, instrument layering.

New Digital Orchestra: The NDO Takes Off

Function: Record Album Manufacturer: NDO Records Price: \$8.98

Requires: Stereo system; CX5M computer

(optional).

Description: An LP of MIDI music, with pieces by Greg Stephen, Bruce Mitchell, Dominik Szava and Sue Hunter. Includes a track of MIDI data which can be accessed using the CX5M computer.

Organ MIDI-Mod

Function: MIDI Interface Kit Manufacturer: Forte Music Price: \$850.00

Computers: any MIDI-equipped computer Requires: Electric organ.

Description: A MIDI-interface retrofit for the electric organ with 1 to 3 manual versions, allowing sustain, float-

ing split point, MIDI channel assignment, and transposi-

Pitchrider 4000

MIDI Interface, Display Function:

Manufacturer: \$495.00 Price: Computers: Apple II

Requires: Pitchrider software, \$125.

Description: A pitch-recognition device, uses visual and audible display to help improve intonation. Generates MIDI data so that any instrument can drive a MIDI syn-

thesizer or any MIDI software.

Pitchrider 7000

MIDI Interface Kit. **Function:** Manufacturer: IVI

\$849.00 Price: Computers: Apple II

Description: A guitar-to-MIDI interface. Allows use of

guitar to play any MIDI synthesizer.

Prophet 2000 **Function:**

Synthesizer, Keyboard Manufacturer: Sequential Circuits \$4595.00 Price:

Description: A 12-bit, 256K to 512K sampling keyboard. Features multi-timbral access via 8 separate MIDI chan-

nels and up to 16 samples onboard.

Prophet VS

Function: Synthesizer Manufacturer: Sequential Circuits \$4695.00

Description: An 8-voice synthesizer. Uses samples from any MIDI sampler data dump as source material

RX-21 Digital Rhythm Programmer

Function: Drum Synthesizer Manufacturer: Yamaha Canada \$360.00 Price:

Computers: any MIDI-equipped computer Description: A programmable drummer, with 9 sound

built in

S612 Digital Sampler

Function: Digital Sampler Manufacturer: Akai Canada \$1995.00 Price:

Computers: any MIDI-equipped computer

Requires: Synthesizer.

Description: A 6-voice sampler. Processes any analog or digital sounds and play them back through any MIDI instrument. MD-280 disk drive included.

S900 MIDI Multiple Point Sampler **Function:** Digital Sampler

Manufacturer: Akai Canada \$4295.00 Price:

Description: An 8-voice, 32-point digital sampler. Digitally records any sound and allows it to be played back polyphonically. Features extensive editing and sound contouring capabilities. One 3-1/2 inch microfloppy drive

SBX-10 Sync Box/Converter

Function: Synchronizer Manufacturer: Roland Canada Price: \$675.00

Description: Accepts MIDI, DIN-Sync, or Time Base signals. Simultaneously synchronizes all connected devices, allows user to freely program the tempo of the

SDE-2500 Digital Delay Line

Function: DIgital Delay Roland Canada Manufacturer:

Description: Stores 64 kinds of programmable memories which can be recalled by the MIDI program change information. Can be used with any MIDI instrument. Any kind of effect can be accurately produced, including flanging, chorus, doubling, and echo.

SFG-05 **Function:** Tone Generator Manufacturer: Yamaha Canada \$250.00 Yamaha CX5M Computers:

Requires: Disk drive or cassette recorder:

MSX or Epson printer (optional).

Description: An FM tone generator that plugs into the CX5M computer. Can be used with the Yamaha YK-01. YK-10, or MIDI music keyboards. Stores to disk, cassette, or UDC-01 cartridge

SX-240 Programmable Synthesizer

Function: Synthesizer, Keyboard Manufacturer: Kawai

\$1895.00

any MIDI-equipped computer Computers: Description: Features 8-voice polyphonicity, 2 DCOs with programmable detune, 2 envelope generators, splittable keyboard, built-in realtime sequencer, built-in interface for storage to tape recorder.

StudioMac Synthesizer Kit

Function: Synthesizer, Keyboard Manufacturer: Creative Solutions \$595.00 (US) Price: Macintosh Computers:

Description: Complete music kit, includes Casio CZ-101 synthesizer, StudioMac software and MIDI adapter. Software alone \$125 US

Synclavier

Function: Synthesizer, Keyboard Manufacturer: New England Digital Price: \$50000.00

Requires: Second keyboard (optional).

Description: A modular, digital music system for recording and performance. Features a 32-track recorder, pianoaction keyboard, SMPTE provisions, and 8 MIDI channels. Price shown is base

Hardware

TR-505 Rhythm Composer

Function: Drum Synthesizer Manufacturer: Roland Canada Price: \$525 00

Computers: any MIDI-equipped computer Requires: Cassette recorder (optional).

Description: A programmable drum machine or a MIDI drum sound source. Offers 16 digital sound sources, 48 preset rhythms, 48 programmable rhythms.

TR-727 Rhythm Composer

Function: Drum Synthesizer Manufacturer: Roland Canada Price: \$975.00

Description: A programmable percussion machine or percussion sound source for MIDI sending unit. Offers 15 different digitally-recorded Latin percussion sounds.

XL2GR Bass

Function: Synthesizer Manufacturer: Steinberger Sound \$2450.00 (US) Price:

Computers: any MIDI-equipped computer Description: Equipped with Roland controller circuitry, can be used with Roland GR 77B synthesizer, or in combination with Roland, Ibanez or other interfaces.

Music

Alfred's Computer Music Software series

Software packages for self-directed learning. Titles include Basic Band Computer Tutor, Practical Theory, Music Achievement series, Music Made Easy. Prices range up to \$275 per module

Publisher:

Alfred Publishing

Computers: Apple II, Commodore 64

Format: Price: \$40.00

Algorithmic Composer

A collection of three programs intended for the experimental composer. Requires Keyboard Controlled Sequencer,

interface Publisher:

Dr T's Music Software

Apple II, Commodore 64 Computers:

Format:

Price: \$149.00

Bank Street Music Writer

Computer arranges notes on two music staffs, makes it easy for beginners to compose tunes, experiment with melody, harmony, rhythm. Able to include repeats, endings, triplets, etc.

Publisher:

Mindscape

Apple II, IBM, Commodore 64, **Computers:**

Atari XE Format: Disk

\$39.95 (US) Price:

Bare Facts Series, The

Intended to teach, test and evaluate through progressively challenging lessons and games. Covers topics such as Notes, Rhythms & Terms, Chords & Intervals, Music History, Composers. Requires 64K RAM. Module prices range up to \$110.

Publisher:

Waterloo Music Apple II

Computers: Format:

Disk

Price:

\$42.00

Casio Editor/Programmer/Librarian

Complete instrument voicing system for the Casio CZ 101, 1000, 3000 and 5000. Includes interactive editor, 10 banks of patches. Requires MIDI interface.

Publisher: Computers: Syntech

Format:

Apple II, Commodore 64 Disk

Price:

\$249.00

CX5M Software Library

Includes: FM Music Composer, FM Voicing, Voicing, FM Music Macro, \$59.95 each. Also: MIDI Recorder, RX Editor, DX7/TX7/TF1 Voicing, DX21 Voicing, FM Music Composer Mk II, FM Voicing, Keyboard Chord Master,

Guitar Chord Master, etc, \$79.95. Publisher: Yamaha Canada

Yamaha CX5M Computers: Format: Disk

\$79.95 Price:

CZ Patch Librarian

Software tool for the creation, editing and storage of patches on the Casio CZ-101, 1000 and 5000 synthesizers. C-64 version \$95 US

Publisher:

Dr T's Music Software

Computers: Apple II, Commodore 64, Atari ST Format: Disk

\$120.00 (US) Price:

DX Patch Librarian V2

Special-purpose software tool designed to simplify the creation and storage of patches for the Yamaha DX synthesizers. Permits programming of TX and 8-16 expansion modules without a DX-7

Publisher:

Dr T's Music Software

Computers: Apple II, Commodore 64 Format: Disk

Price:

\$125.00 (US)

DX-1 Echo

Adds digital delay capability to DX-1 sound system. Over 40 routines for echoing and processing sound. Control echo loop time, sample rate, etc. Includes feedback potentiometer. Requires DX-1 sound sampling hardware.

Publisher:

Decilionix

Computers: Format:

Apple II Disk

Price:

\$149.00 (US)

DX-1 Sound Sampling System

Samples and reproduces sounds. Five-octave range, sequencer, saves sounds or sequences to disk. Many manipulations: transpose, reverse, etc. Samples up to 36 Khz. Uses Apple keyboard, or add Syntauri, Passport. Includes peripheral card.

Publisher: Computers: Decilionix Apple II

Format: Price:

Disk \$349.00 (US)

DX-1 Splash

Six color, high-resolution real-time displays show digitized sound on the screen. Requires DX-1 sound hardware.

Software

Publisher: Computers:

Decilionix Apple II Disk

Format: \$45.00 (US) Price:

DX-1 Volumes 2-5

Four sets of pre-recorded sound for the DX-1 sound system. Volume 2: piano, guitar, etc. Vol 3: space sounds, explosions. Vol 4: percussion. Vol 5: dog bark, car horn, hiccup, etc. Requires DX-1 sound hardware.

Publisher: Decilionix Computers: Apple II Format: Disk Price: \$79.00 (US)

DX-Archive

DX-7 synthesizer voice librarian and management package. Creates performance groups from several libraries conveniently. Moves voice banks to and from the DX-7. Needs DOS 2.0 or higher.

Publisher: Computers:

Alchemy Mindworks

IBM Format: Disk Price: \$39.95

DX-TX EZ Voice

Programming librarian, uses color graphics, stores up to 110 re-programmed sounds

\$675.00

Publisher: Syntech Computers: **IBM** Disk

Format: Price:

Echo Plus

Re-assigns MIDI input data for note control, channel ID, controller destination. Allows echos, chorus, expanded control of keyboard.

Publisher: Computers: Dr T's Music Software

Commodore 64 Format:

Price:

\$139.00

Software

FM Drawing Board

A voice librarian and voice parameter editor for use with

the Yamaha DX-7 synthesizer.

Publisher: Nexus Computers: Apple II Format: Disk Price: \$300.00

Graphic Artist

Can be used with mouse or from keyboard. MSX Mouse optional.

Publisher: Yamaha Yamaha CX5M Computers:

Format: Disk Price: \$99.95

IXPress

Programming editor, librarian for Roland JX8P synthesizer. Complete instrument voicing system, features 4 banks of patches, loop recorder, auto-search.

Publisher: Syntech

Apple II, Commodore 64 Computers:

Format: Disk \$249 00 Price:

Keyboard Controller

Allows one master keyboard to slave MIDI instruments on any of 16 available MIDI channels. Provides 3 levels of operation. Requires Syntech MIDI interface.

Publisher:

Syntech Commodore 64 Computers:

Format: Disk \$299.00 Price:

Keyboard-Contolled Sequencer

Sequencer, includes complete editing system with flexible options for structuring music and realtime control from computer keyboard. C-64 version \$150 US

Dr T's Music Software Publisher:

Apple II, Commodore 64 Computers: Format: Disk

\$175.00 (US) Price:

Master Tracks

Realtime, step-time and song-mode sequencing combined in one program. Controls MIDI keyboards, voice modules and drum machines. Requires Passport MIDI interface.

Passport Designs Publisher: Computers: Apple II, Commodore 64

Format: Disk \$379.50 Price:

MIDI Music Tutor

Ear training system. Covers intervals, chords, etc, from beggining to advanced. Includes record keeper. Requires Passport MIDI interface and keyboard. Three volumes, price shown is for complete set.

Publisher: Passport Designs

Computers: Apple II Disk Format: \$349.50 Price:

MIDI Pro Toolkit

Contains complete documentation for the MIDI Pro Interface, assembly language driver routines with object and source code, Applesoft BASIC demo program. For Apple

//c only

Publisher: Passport Designs Apple II

Computers: Format: Price:

Disk \$25.00 (US) **MIDI Sampler**

Single track record, playback, save to disk. Comes with library of with baroque masterpieces. Requires Passport MIDI interface and keyboard.

Publisher: Computers: Passport Designs

Apple II, Commodore 64

Format: Price: \$59.50

MIDI Song Albums

Lets you hear and play along with your favorite music using a MIDI synthesizer. Use complete full-voice arrangements, add color graphics on screen. Titles include The Beatles, Pops, etc. Price is per album. Requires MIDI

synthesizer. Publisher:

Passport Designs Computers: Apple II, Commodore 64

Format: Disk Price: \$59.50

MIDI Studio

A MIDI sequencer for first-time buyers. Features many

capabilities of the advanced Studio I.

Publisher: Computers: Syntech Commodore 64

Format: Disk Price: \$149.00

MIDI Voice Librarian

Loads up to 4 banks of 32 sounds directly from software, stores and recalls individual sounds as well as whole banks. Requires MPU-401 interface. Apple version for IIe.

Publisher: Passport Designs Apple II, IBM, Commodore 64

Computers: Format: Disk

\$109.00 Price:

MIDI/4 Plus

Performs digital recording of all MIDI music information. Allows unlimited overdubs, sync with drum machines. Requires Passport MIDI interface and keyboard.

Publisher: Computers: Passport Designs Apple II, Commodore 64

Format: Disk \$199.50 Price:

MIDIMAC Patch Librarian Series

Available for Yamaha DX, TX or RX, Roland Juno-106

and others. Editor about \$195 extra. Publisher: Opcode Systems

Computers: Format:

Macintosh Disk \$120.00

MidiPatch

Price:

Allows the musician to store custom patches to disk from Yamaha DX/TX and Casio CZ keyboards.

Publisher: Computers: Hybrid Arts IBM, Commodore 64, Atari XE

Format: Disk \$108.00 Price:

MidiTrack III

A 16-track, 3000-note MIDI sequencer. Allows punchin, punch-out, overdubbing, auto correction, transposition, track combining. Work with all MIDIequipped keyboards, Hybrid Arts Atari interface.

Publisher: **Computers:** Format:

Hybrid Arts Atari XE Disk

Price: \$450.00 Mirage C-64 Terminal Editor

Wave sample and parameter display and editing tool.

Requires Ensoniq sampler. Publisher:

Steinberg Research

Computers: Format:

Commodore 64

Price:

Disk \$199.00

MUSE (MIDI Users Sequencer/Editor)

A second-generation 8-track sequencing and editing program, with 6000-note capacity. For use with any MIDIequipped instruments.

Publisher:

Roland Canada

Computers: Apple II, Commodore 64 Format: Disk

Price: \$225.00

Music Construction Set

Uses the icon conventions of the Pinball Construction Set, but applies them to a music staff. Allows the user to assemble long passages then play them back. Apple version supports Mockingboard. C-64 and Atari version \$22.95 US

Publisher:

Electronic Arts

Computers: Apple II, IBM, Commodore 64,

Atari XE Disk

Format: \$39.95 (US) Price:

Music Digital Studios 1 and 2

Include many features such as 16 sequences and MIDI channels, 8 tracks, track merging, play and record, digital

delay, disk save and load. Publisher: Syntech

Computers:

Apple II, IBM, Commodore 64,

Atari ST Format: Disk Price: \$299 00

Music Processing System (MPS)

A multi-purpose package to drive MIDI instruments from the IBM PC or compatible. Requires MPU-401, MIF-IPC,

MIDI synthesizer. Printer optional. Publisher: Roland Canada

Computers: Format:

Price:

IRM Disk \$850.00

Music Shop, The

Users can compose, edit, save, print, and play music. Broad musical capabilities, pull-down menus, full control of sound, full editing features. Prints standard format sheet music, includes assortment of sample tunes.

Publisher: Computers: Broderbund Commodore 64

Format: Price:

Disk \$44.95 (US)

Music Studio, The

MIDI software for composing and editing scores. Up to 15 channels controllable at the same time. Uses pulldown menus, windows, etc. Includes library of compositions. IBM version \$69.95. C-64 and Atari XL versions \$44.95. Publisher: Activision

Computers:

IBM, Commodore 64, Atari XE,

Atari ST, Amiga Disk

Format: Price: \$79.95

Software

Music Works

Music construction set emulates traditional Macintosh applications, complete with icons, pull down menus, etc. Notes are positioned on the staff using the mouse. Phrasing marks, etc, can be added. Plays multiple voices in various modes

Publisher: Computers: Hayden Macintosh Disk \$79.95 (US)

Format:

Musicraft Music entertainment package, allows tunes to be composed, played, stored, etc

Publisher: Computers: Format:

Commodore Amiga Disk \$149.99

MusicWare

Series includes 4 software titles: Song Builder, Song Editor, Song Printer, Sound Maker. Price is per title. Requires Music Mate keyboard.

Publisher: Computers: Sequential Circuits Commodore 64

Format: Price:

\$9.95

Omnibus

A MIDI librarian. Features ability to file single patches as well as entire groups, save comments with MIDI dump, store to auxilliary drives or hard disk. Provides help windows, search function. Requires MIDI instrument, inter-

Publisher: Computers: Format: Price:

Syntech Apple II \$225.00

PC MIDI Recorder

Uses all expansion memory available, allows work on 32 separate pieces of music at once, saves recorded pieces in ASCII format, supports 48 tracks. Requires Syntech MIDI interface

Publisher: Computers: Format:

Price

Syntech IBM Disk \$799.00

A MIDI sequencer, editor and performance tool. Provides multi-track, realtime and step recording, precise editing, and total control of MIDI keyboards. Requires Fat Mac.

Publisher: Computers: Mark of the Unicorn

Format: Price:

Macintosh Disk \$399.00

Personal Composer

Integrated software tool for musical composition, recording, performance, and notation. Includes word-processor functions, automatic transpose, etc. Requires Hercules Graphics display adapter, Roland MPU-401, MIF-IPC interface.

Publisher: Computers: Format:

Price:

Jim Miller **IBM** Disk \$595 00

Music printing system, creates hardcopy in standard musical notation of a keyboard performance. Includes full editor. Requires Passport MIDI interface and keyboard, as well as dot-matrix printer with graphics interface.

Publisher: Passport Designs Computers: Apple II

Format: Disk Price: \$449.50

Polywriter Utilities

Converts Polywriter and Leadsheeter music graphic files into MIDI/4, MIDI/4 Plus, and MIDI/8 sequencer files. Requires MIDI keyboard, interface, dot matrix printer with graphics capabilities

Passport Designs

Publisher: Computers:

Apple II Format: Disk Price: \$169.50

Pro-16/TNS Sequence/Composition Package

Allows extensive editing from staves or keyboard. Also available on EPROM, \$579.

Publisher: Steinberg Research Computers: Commodore 64

Format: Disk \$429.00 Price:

Professional Composer

A 12-stave music scoring program, allows user to transpose, merge, cut and paste, then preview an arrangement using Mac's internal voices.

Publisher: Computers: Cherry Lane Technologies Macintosh

Format: Disk Price: \$825.00

Prolib

Professional librarian program which works with different instruments and data formats, expandable to support future MIDI products.

Publisher: Computers:

Format:

Price:

Club Midi IBM Disk \$99.95 (US)

Roland MRC (Music Recorder Software)

Eight-track, polyphonic recording program. Records and plays back dynamics, patch changes, bender, pedals, aftertouch, etc. Automatic corrections. Stores 3400 notes on Apple, up to 35,000 notes on 256K IBM. Needs MPU-401, MIDI instrument.

Publisher: Computers:

Roland Canada Music Apple II, IBM

Format: Disk \$200.00 Price:

Sequence Compiler

Runs under Apple CP/M, works with most word processors, such as WordStar. MIDI Connection

Publisher: Computers:

Apple II Format: Disk Price: \$99.99

Songwriter

Uses simulated piano roll graphics, onscreen commands to guide user from scales and rhythm to more complex musical forms, theory. Permits writing a song, changing tempo, addition/deletion of notes, creation of motifs. Includes 28 songs.

Publisher: Computers:

Scarborough Systems Apple II, Commodore 64

Format: Disk Price: \$39.95 (US)

Soundwave Music Recorder

Turns computer into professional multitrack recorder, playing up to 16 synthesizers or drum machines. Features real and step time recording, rhythmic autocorrect and autolocate

Publisher: Computers:

Format:

Price:

Soundwave Software Atari ST Disk \$299.00

Steinberg Twenty-Four 520ST

Provides sequencer, editor and performance capabilities linked with Atari GEM Desktop. Allows realtime or step multitrack recording and MIDI control

Publisher:

Steinberg Research Atari ST

Computers: Format: Price:

Disk \$299.00

Synthestra

A MIDI sequencer and controller program. Handles up to 16 MIDI instruments and devices from one keyboard. Requires MIDI interface, at least one MIDI keyboard.

Publisher: Decilionix Computers: Apple II Format: Price: \$120.00 (US)

Tape 'N Step

Allows realtime and step recording, with nested loops and pattern calls. Can be used with hard disk. Requires Roland MPU-401 interface, MIDI synthesizer.

Publisher: Computers: Format:

Non-Zero Communications **IBM** Disk \$150.00

Texture

Price:

'Modular recording' allows flexible editing and manipulation of muiscal material. Compositions may be recorded as small 'patterns' and linked to form songs. Up to 8 tracks of polyphonic MIDI data can be recorded and played back. Magnetic Music

IBM

Publisher: Computers:

Format: Disk Price: \$295.00

Total Music

Capable of MIDI sequencing, interactive editing and transposition. Records and plays back up to 128 simultaneous tracks, using all 16 MIDI channels

\$649.00

Publisher: Southworth Music Computers: Macintosh Format: Disk

Yamaha DX-Pro

Allows easy programming of Yamaha DX-7 synthesizer modules. Saves, retrieves, organizes. Includes nearly 300 voices in disk library. Requires interface, synthesizer. Yamaha Canada

Publisher: Computers: Format:

Price:

Price:

Apple II Disk \$325.00

Almost Free Voices

for the IBM PC

The Yamaha DX-7 is one of the most powerful MIDI equipped synthesizers on the planet. One of the things that makes it so unspeakably slick is its capacity for having its preset voices loaded through the MIDI port. You can store banks of voices on disks and send them to the DX-7 almost instantly when you want them.

While there are numerous DX-7 voice librarians available, many replete with pots of voices to use, these things are nasty and expensive and very often fairly complex to operate when all you really want to do is to port voices. As such, in the tradition of almost free software, we've assembled a collection of almost free DX-7 voices. This includes a whole disk full of voice libraries and a really snappy little utility to send them over to the DX-7.

If the voices that came with your DX-7 blew you away, these libraries will send your brain into several other higher order dimensions at once. They range from the most sublime recreations of acoustic instruments to freaky, bizarre effects certain to be overused at least once. We've assembled them into performance groups to make them immediately useful, and made them compatible with the DX-Archive voice librarian software to make them easy to re-organize if you want to. The DX-Archive program is available separately... check out the details below.

There are libraries on the disk of percussive effects, woodwinds, a whole set of pianos, heavy metal noises, string and brass sections, funk collections, baroque collections, rock collections, jazz collections and a few collections that defy description. There are enough voices here to keep your DX-7 confused for your lifetime and that of your immediate descendants.

All of this unspeakably magnificent sound...
plus the DX-7 voice transfer program... is
available for a mere

\$19.95

plus seven percent Ontario voice tax

from

Moorshead Publications 1300 Don Mills Road Toronto, Ontario M3B 3M8

or you can order by phone and be up to your navel in voices in a couple of days. Call

1(416) 445-5600

have your Master Card, Visa or American Express card ready.

The DX-Archive voice librarian software is available separately for \$39.95 from XL electronix Computer Music Centre, 317 College Street, Toronto, Ontario M5T 1S2. It provides complete voice bank transfer facilities plus a convenient method for re-organizing the voices in multiple libraries.

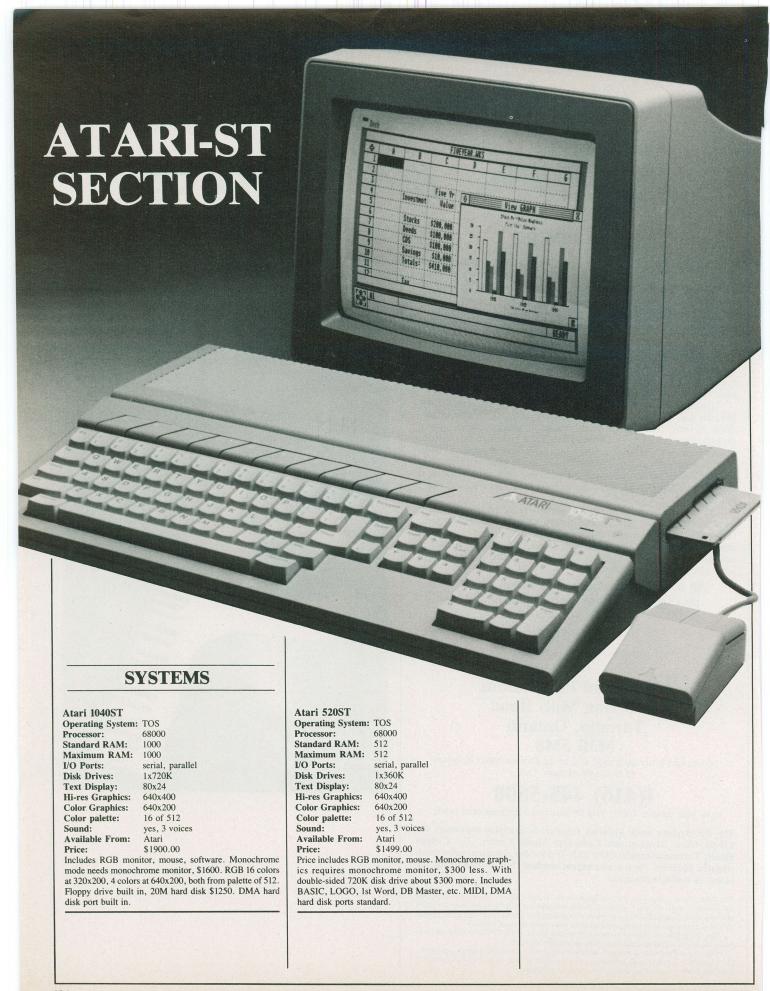
Fine Print: These voices have been designed for the Yamaha DX-7 synthesizer. While they will probably work on other, similar Yamaha instruments, they have not been tested on anything other than the DX-7. Instruments with synthesizers having fewer operators, such as the DX-9, may experience sonic peculiarities in using some of these voices.

the DX-9, may experience sonic peculiarities in using some of these voices.

The use of this collection presupposes the availability of an IBM PC or compatible computer, DOS 2 or higher and a Roland MPU-401 MIDI interface.

Moorshead Publications warrants that these voices will be readable when you get them. The post office, however, may have ideas of its own. If your disk doesn't function properly when you receive it please contact us for a prompt replacement.





EXPANSION

LogiKhron Clock Card

Function: multifunction Manufacturer: Soft Logik **Available From:** STari \$74.95

Perpetual realtime clock/calendar, plugs into cartridge port on ST-type computers. Automatically inserts date and time when computer is booted.

STORAGE DEVICES

Shanner SD-2000

Manufacturer: Gumball

microfloppy, external Type: Capacity: 720 kilobyte \$399.95 (US)

Double microfloppy add-on, includes two double-density microfloppy drives in a metal case. Needs existing ST disk power supply, or extra power pack \$14.95 US.

Supra Drive

Manufacturer: Supra

Type: hard, external Capacity: 10 megabyte Available From:

Supra \$549.00 (US) Price:

Ten megabyte drive for Atari ST. Compatible with other DMA bus devices. Ten megabyte model available only direct from Supra. Also available in 20M, 30M, and 60M capacities

MISCELLANEOUS

Hippo EPROM Burner

Manufacturer: Hippopotamus **Function:** EPROM Burner \$139.95 (US) Price:

Reads, verifies, edits and burns most EPROM chips.

Amiga version \$199.95 US.

Hippo ST Sound Digitizer

Manufacturer: Hippopotamus Function: Sound Sampler \$139.95 (US) Price:

Digitally samples, edits, mixes and plays. Mouse based editing of volume, echo, etc. Realtime oscilloscope. Up to 22,000 samples per second, frequencies up to 11 Khz. Up to 40 seconds of sound can be stored with 1 megabyte of

Hippo X-10 Powerhouse

Manufacturer: Hippopotamus **Function:** Appliance Controller Available From: X-10 Powerhouse \$139.95 (US) Price:

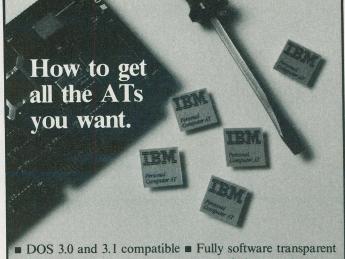
Allows your Atari ST to control household 120-volt devices, using existing wiring.

HippoVision

Manufacturer: Hippopotamus **Function:** Video Digitizer \$139.95 (US)

Price: Creates Degas and NEOchrome compatible picture files using any standard composite video input, such as video camera, VCR, TV, etc. Snaps pictures in 1/60 of a second.

B&W high-contrast mode or up to 16 grey levels. NTSC, PAL, SECAM.



- 100% I/O emulation of the 8088 (no timing problems)
- 8088 native mode No BIOS problems Can address up to 16 megabytes of memory on add-in expansion boards
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It's simple. The 286 SPEED PAK is where it's AT.

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The Atari 1040STF™ is a COMPLETE
personal computer system, complete with
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high resolution monitor, TOS™ operating system,
including GEM™ Desk Top ST Basic, and
NEOchrome art painting programmes.

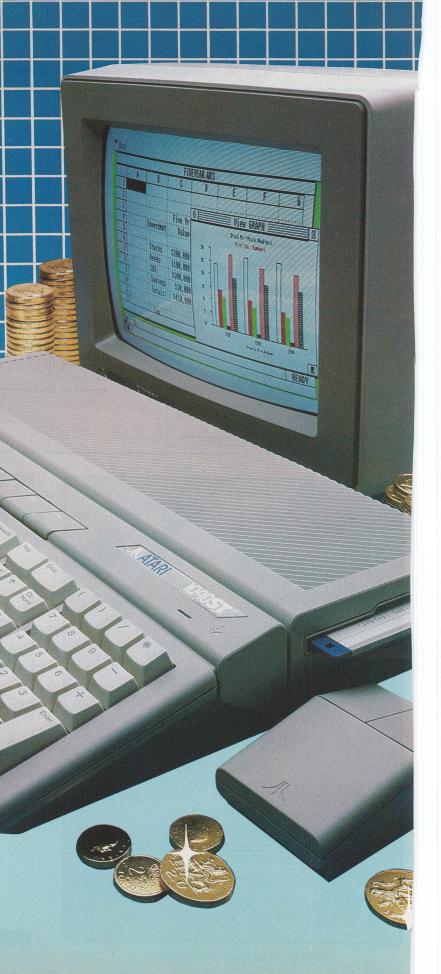
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Circle No. 36 on Reader Service Card.



PRINTERS

Atari 1027 Letter Quality

Manufacturer: Atari

Type: daisy wheel **Print Modes:** letter

Interface: parallel

Available From: Atari Price: \$249.95

Letter quality printer designed for use with Atari com-

puters

Atari XMM801 Dot Matrix

Manufacturer: Atari

dot matrix Type: 80 cps Print Speed:

Print Modes: draft Graphics: yes **Download Fonts:** ves

parallel Interface: **Available From:** Atari \$349.95 Price:

Includes usual text enhancements: elite/pica pitch, proportional, double-width, bold, sub/superscripts, underline,

etc. Dot adressable graphics.

Epson CR-220AT

Manufacturer: Epson

dot matrix Type:

Print Speed: 50 cps **Print Modes:** draft **Graphics:** yes

Interface: parallel Available From: Epson Canada \$179.00

Price: Pin feed

> More printers in Printer Section. Modems: see Modems Section.

Atari-St.

Software

UTILITY **DESKTOP MANAGERS**

Calendar

Displays and prints calendars for any month and year from 1980 to 2099. Stores messaages for any date and time, provides alarm reminder and hourly chimes. Installs as desk accessory

Publisher: Format:

MichTron Disk

Price: Availability: \$44 95 STari

Cornerman

Desktop accessory includes Notepad, Calculator with binary hex and octal modes, Address/phone book, Phone dialer, ASCII chart, Clock/calendar, DOS window for access to MichTron DOS Shell, and 15-Squares game.

Publisher: Format:

MichTron Disk \$75.00

Price: Availability:

STari

Set of memory-resident desk accessories. Includes calculator with square root, card filer database, and notepad text editor.

Publisher: Format:

StarTroniks Disk

Price:

\$44.95 (US)

Electro Calendar

Enhanced, computerized calendar. Stores and retrieves messages, prints calendars for years between 0001 and 9999

Publisher: Format:

Soft Logik Disk

Price: Availability: \$59.95 STari

TimeLink

Electronic diary program. Displays daily, weekly, monthly and yearly information, uses multiple windows with instant updating between time frames, calculates time between dates, provides record-keeping database with

search, sort, etc. **Publisher:**

Batteries Included

Format: Price:

Disk \$69.95

FILE MANAGERS

DOS Shell

Shell program that provides an MS-DOS command-line interface for the ST. All the usual MS-DOS commands are available, Supports global file commands and batch files.

Publisher: Format: Price:

MichTron Disk \$59.50

STari

Availability:

Unix-like shell environment for the Atari ST or IBM PC. Mimics standard Unix command line operation. Includes C library utilities.

Publisher:

Beckemeyer Development Tools

Format:

Price:

\$49.95 (US)

MISCELLANEOUS

Features user-definable disk space, optional disabling of verify mode, multiple RAMdisks at one time, etc.

Publisher: Format:

Antic, Kuma Disk

Price:

\$19.95 (US)

Alt

Keyboard macro utility, installs as a GEM Desktop Accessory, allows all 36 ALT key combinations to be assigned up to 60 characters each, including text phrases or commands. Key set-ups can be saved to disk, loaded automatically.

Publisher:

MichTron Format: Disk \$49.95 (US)

Price: Availability: STari

Disk Doctor

GEM-based file/sector editor. Features string search, directory history, file attributes, automatic file recovery, online help, etc.

Publisher:

Antic Format: Disk \$29.95 (US) Price:

H&D Toolbox - Volume One

Set of five disk utilities, including Disk File/Sector Editor, Memory Editor, Fast Format and Copy, Deleted File Recovery, and Directory Print.

Publisher: Format:

Mirage Disk

Price. \$59 95

Availability: Micro D, Multimicro, Ingram

HippoDisk Utilities

Set of disk utilities, includes RAM editor, track & sector editors, file recovery, etc

Publisher: Hippopotamus Software

Format: Disk

\$49.95 (US) Price:

HippoRAMdisk Emulates disk drive in RAM.

Publisher: Hippopotamus Software

Format:

Disk \$34.95 (US)

Price:

Kissed

Complete debugging tool features full-screen editing, tracing and execution options, timed breakpoints, independent screens, dynamic relocation, assembler-disassembler, decimal-hex conversions, online help, etc.

Publisher: Format:

MichTron Disk \$59.50

Price: Availability:

Atari-ST

Software

M-Disk

RAMdisk software for the Atari ST.

Publisher: Format: Price: Availability: MichTron Disk \$59 95

STari

Mi-Dupe

Fast bit copier, allows speedy duplication of protected and

unprotected disks.

MichTron Publisher: Format: Disk \$44 95 Price: Availability: STari

Michtron Utilities

Set of disk utilities for the ST, lets you access individual bytes on disk, change file and volume names, change file attributes, format individual disk tracks, copy individual sectors, undelete files, recover data from damaged disks.

Publisher: Format:

MichTron Disk

Price: Availability: \$89.95 STari

Micro C Tools

Set of UNIX-style tools for text editing and program debugging.

Publisher:

Beckemeyer Development Tools

Format: Price:

\$24.95 (US)

Micro Make

Automatically builds programs. Creates batch files or executes compiler/linker directly.

Publisher:

Beckemeyer Development Tools

Format:

\$34.95 (US)

Price:

Backup utility, duplicates virtually any disk. Updates available. Not copy-protected, works on all ST computers

Publisher: Format:

Proco Products Disk

Price:

\$24.95 (US)

Desk accessory calculator, works like 10-cell spreadsheet Includes scientific functions, financial, hex or decimal modes. Requires 37K of RAM.

Publisher: Format:

SofTechnics Disk

Price: Availability: \$39.95 (US) Apex Resources

ST Duplicator

Backs up heavily copy-protected disks. Upgraded to keep abreast of new protection techniques

Publisher:

Duplicating Technologies

Format:

Disk \$59.95 (US)

Price:

PRINTING

Soft Spool

Software print spooler, allows continued use of application program while computer prints 'in background'

Publisher:

MichTron

Format: Price: Availability: Disk \$59.95 STari

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Digital Research Disk

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\$199.00 (US) Ingram

HippoConcept

Multi-level outliner and idea processor, allows concepts to be structured along an outline format. Amiga version \$119 95 LIS

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HippoSpell

Spellchecker with 30,000 word dictionary. Provides word statistics, allows creation of user-defined dictionaries. Amiga version \$59.95 US

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Hippopotamus Software

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HippoWord

Advanced word processor, with multiple font support, mail merge, macros, etc. Extra fonts available. Amiga version \$189.95 US.

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PaperClip Elite

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Regent Spell

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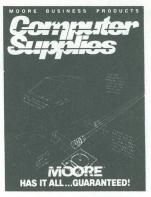
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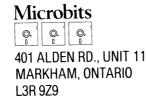
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Digital Research

Format: Price:

Disk \$249.00 (US)

Availability:

Ingram

Graphic Artist, The

Combines CAD features with graphics-arts capabilities. Lines, shapes; size, rotate, pan, zoom; symbol libraries; text; quick 'what if' modelling; macro commands; output to plotter, dot-matrix, laser printers. Language \$245 US

Publisher:

Progressive Computer Applications

Format: Price:

Disk \$749.95 STari

Availability:

HippoArt

Creates NEOchrome-compatible graphic files. Includes slide-show program

Publisher:

Hippopotamus Software

Format: Price:

\$39.95 (US)

HippoFonts I Set of 12 additional fonts for use with HippoWord. Amiga version \$59.95 US.

Publisher:

Hippopotamus Software

Format:

\$39.95 (US)

HippoPixel

Graphics system, creates new fonts, sprites, animation sequences. Amiga version \$59.95 US.

Publisher:

Hippopotamus Software

Price:

\$39.95 (US)

Megafont II+

Prints text files in any font, prints screens in 4 sizes. Works as a fast program lister, prints all special Atari characters.

Publisher: Format:

XLent Software

Price:

Disk \$24.95 (US)

PrintMaster

Unabashed clone of Print Shop, allows users to create banners, cards, signs, etc, by pasting together pre-drawn graphics and fancy text fonts. Includes 8 fonts, 11 borders, 111 graphic images, editor. Art Gallery of extra pictures

\$44.95 Publisher:

Unison World

Format: Price:

Disk \$59.95

Availability:

STari

Document processor for Epson FX-80 compatible and laser printers. Provides graphic onscreen display of final copy, mouse selected menus, multiple document windows. Not copy protected. Laser version \$749.95.

Publisher:

Format: Price: Availability: Disk \$149.95

STári

Desktop publishing program features 23 fonts, plus custom fonts design. Includes graphic design system with shapes, fills. Text and graphics can be mixed, overlayed. Compatible with Neochrome and Degas. Supports both color and monchrome

Publisher:

XLent Software

Format:

Disk

Price: Availability:

\$59.95 STari

SUPER MODEM 2400

GVC Adds a new member to its family of modems.



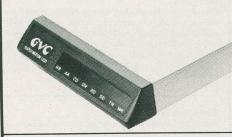
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- Complete with RS-232 Cable



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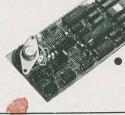
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Atari-ST .

Software

COMMUNICATIONS

DFT

Eases ASCII file transfer between Atari ST and IBM computers. Uses modem or direct-connect cable.

Publisher: MichTron
Format: Disk
Price: \$75.00
Availability: STari

Flash

Complete GEM-based terminal system. Includes memo editor, reverse scrolling buffer, command language, terminal emulation, CompuServe Vidtex graphics emulation, XMODEM and ASCII file transfer, DOS commands, etc.

Publisher: Antic Format: Disk Price: \$39.95 (US)

I*S Talk

GEM-based communications system. Features menus, windows, 300K RAM capture buffer, capture to disk, full-screen editing of incoming text, 50,000-word spell checker, 3 levels of macros, memo function, online help. ST version \$109.95.

Publisher: Batteries Included Format: Disk Price: \$139.95

Intellicom

Complete terminal package. Supports ASCII, XON/ XOFF, XMODEM, KERMIT, CompuServe A protocols. Emulates many popular terminals. Auto login macros, user defined function keys, color support, variable buffer size, online help.

Publisher: Computer Toolbox Format: Disk Price: \$69.95 (US)

Mi-Term

Complete terminal package, including automatic logon, auto capture buffer, connect-time clock, and GEM interface. Supports DFT, XMODEM and ASCII transfers at 300, 1200 or 9600 baud. Needs modem.

Publisher: MichTron Format: Disk Price: \$74.95 Availability: STari

MichTron BBS

Good basic BBS system, allows up to 16 special-interest conferences with message base, etc. Supports XMODEM, DFT and ASCII upload and download.

Publisher: MichTron
Format: Disk
Price: \$74.95
Availability: STari

PC/InterComm

VT100 terminal emulator and communications package. Runs full-screen applications just as they would be on host computer. Saves incoming data to disk. Includes menus, onscreen status, logon macros, etc. Uses KERMIT and XMODEM protocols.

Publisher: Mark of the Unicorn Format: Disk Price: \$179.50

Availability: STari

RECREATION ACTION GAMES

Gold Runner

As commander of the Lode-Runners you must infiltrate underground mines in search of gold and adventure. Use wit and skill to avoid guards and other hazards and escape with the loot. Over 50 screens. Color only.

Publisher: MichTron
Format: Disk
Price: \$59.50
Availability: STari

Lands of Havoc

As Sador, the reptile warrior, you try to free Haven from the Dark, Lords using your powerful body and the secrets left behind by High Vanish. 2000 screens. Needs joystick.

Publisher: MichTron
Format: Disk
Price: \$29.95
Availability: STari

Major Motion

Race down the highway as enemy drivers, helicopters and potholes threaten to destroy you. Defend yourself with smoke screens, machine guns, oil slicks and missiles, or escape down branching roads and treacherous rivers.

Publisher: MichTron
Format: Disk
Price: \$59.50
Availability: STari

Mission Mouse

A multilevel 'platform' maze game that uses the ST's highest resolution monochrome graphics mode. Requires monochrome monitor and joystick.

Publisher: MichTron
Format: Disk
Price: \$39.95 (US)
Availability: STari

Mudpies

Keep Arnold from harm by using mudpies to ward off angy clowns. Challenge rounds, special prizes, music and sound effects. Color only.

Publisher: MichTron
Format: Disk
Price: \$59.95
Availability: STari

Red Alert

US cities are under attack by Russian ICBMs, MIRVs and nuclear submarine-launched missiles. Defense is by ground based lasers and ABM siloes, plus last-ditch spacebased particle beam. Features animation, help, custom games. Color or mono.

Publisher: Antic
Format: Disk
Price: \$24.95 (US)

Time Bandit

Battle Evil Guardians as you escape with the Treasures of Time. Use Timegates to roam over 18 worlds with over 15 levels in each. Unique creatures, 3D terrain, scrolling landscapes, etc. Dual-player mode lets two play in separate windows.

Publisher: MichTron
Format: Disk
Price: \$59.50
Availability: STari

ADVENTURE GAMES

Black Cauldron, The

Graphic adventure based on the animated Walt Disney movie of the same name. Uses color graphics, animated characters, etc. Joystick or keyboard control, multiple solutions and variable scoring.

Publisher: Sierra On- Line Format: Disk Price: \$39.95 (US) Availability: STari

Borrowed Time

Play the part of Sam Harlow, private eye in the thirties. Find out who's trying to kill you, collect evidence. Uses keyboard commands, function keys and mouse. Animated illustrations. A two-disk set.

Publisher: Activision
Format: Disk
Price: \$59.95
Availability: Beamscope, Ingram

Brataccas

You are Kyne, a genetic engineer in hiding on the mining asteroid Brataccas. Explore, deal with inhabitants, avoid underworld hit- men. Uses word-balloons to show conversations, scrolling animation display. Supports mouse, joystick or keys.

Publisher: Mindscape, Psygnosis
Format: Disk
Price: \$54.95
Availability: Mindscape

Coveted Mirror, The

Animated graphic adventure includes skill and action games that help with the solution. You must escape the prison of the evil king Voar and find the five pieces of the magic mirror. Apple & C-64 versions \$17.95 US, Amiga \$29.95 US.

Publisher: Penguin/Polarware Format: Disk Price: \$19.95 (US)

Crimson Crown, The

Graphic/text adventure. You are a lone hero wandering a nightmare kingdom, exploring caverns and castles, finding magic objects and solving riddles.

Publisher: Penguin/Polarwar Disk
Price: \$19.95 (US)

Enchanter

First in a trilogy, a successor to the popular Zork series of pure text adventures. You must enter the Castle of the Enchanter, collect spells, and eventually outsmart the Evil Warlock. Superior even to the lauded Zork games.

Publisher: Infocom
Format: Disk
Price: \$40.00 (US)

Hitchhiker's Guide to the Galaxy

Adaptation of the hilarious British radio/TV series. Pure text.

Publisher: Infocom
Format: Disk
Price: \$40.00 (US)

Atari-ST ____Software

Working on an archaeological dig in the desert, you have unwisely annoyed your Arab workforce, who abandon you. Alone you must find the lost pyramid, decipher its mysteries, and escape with its treasure. Pure text.

Publisher: Format: Price:

Infocom \$45.00 (US)

King's Quest

An adventurous world of three-dimensional graphics, sound, animated characters. Guide Sir Graham on his quest. Different mysteries and obstacles with each session.

Publisher: Format:

Sierra On- Line Disk

Price:

\$49.95

Availability:

IBM, Radio Shack

King's Quest II — Romancing the Throne

New generation of graphic adventures features animated characters guided by keyboard, joystick or full sentences. Fairy tale story has multiple solutions, scored according to cleverness, permits multiple playings. MS-DOS version \$49.95

Publisher:

Sierra On- Line

Format: Price:

Disk \$69.95

Availability: STari, Radio Shack

Mindshadow

You are an amnesiac, travelling across a mysterious island, avoiding perils in swamp, jungle and cave while in search of your identity. A strange bird, the Condor, helps you along.

Publisher:

Activision Disk

Format: Price:

\$59.95

Availability: Beamscope, Ingram

Oo-Topos

Science-fiction adventure. Features text and graphics.

Publisher:

Penguin/Polarware

Format: Price:

\$19.95 (US)

Graphic adventure featuring powerful sentence command parser and full utilization of ST graphics. Uses scroll-like pull downs, sliding graphic screens. Object of the game is to escape from the mystical land of Kerovnia.

Publisher: Format:

Rainbird Disk

Price:

\$67.50

Availability:

Firebird Licensees, STari

Sequel to the Enchanter, and second in this new text adventure trilogy.

Publisher: Format:

Disk \$45.00 (US)

Price:

Sword of Kadash

Control your character in real time as you explore a dragon's castle to find the magical Sword of Kadash. Each of over 200 screens has its own puzzles, secret doors, creatures, and tricks. Use weapons, shields, spells.

Publisher:

Penguin/Polarware

Format: Price:

Disk \$17.95 (US)

Transvlvania

Popular graphics adventure has player fending off werewolves, vampires while in search of endangered Princess Sabrina. Available in double Hi-Res for Apple //e. IBM, ST, Macintosh version \$19.95 US. Amiga \$29.95

Publisher:

Penguin/Polarware Disk

Format: Price:

\$17.95 (US)

Zork I: The Great Underground Empire

Armed with sword and lantern you venture down into the lost subterranean kingdom of Frobozz. Slay the troll, solve puzzles, find treasures while evading the villanous thief. Pure text. Massive, with two sequels. TRS-80 version

Publisher: Format: Price:

Availability:

Infocom Disk \$45.00

Radio Shack

Zork II: The Wizard of Frobozz

Discover a previously hidden section of the Underground Empire. Meet the Wizard, solve puzzles. Sequel to Zork I, but can be played alone. Pure text.

Publisher: Format:

Infocom Disk \$45.00 (US)

Price:

Zork III: The Dungeon Master

Culmination of the Zork trilogy. You encounter the Dungeon Master himself, and your destiny hangs in the balance

Publisher: Format: Price:

Infocom Disk \$45.00 (US)

ROLE PLAYING GAMES

Omnitrend's Universe II

Travel among 47 detailed planets, battle intelligent enemy ships, maintain complex crew characters and ships systems. Uses text parser for planetside interactions, graphics for space battles. Pull down menus, etc simplify use.

Publisher: Format: Price: Availability: Omnitrend Disk \$105.00 STari

Command up to 6 characters as they search a magic world for the Nine Rings. Introductory level of difficulty. ST version scheduled for April.

Publisher:

Strategic Simulations

Format: Price:

\$39.95 (US)

Sequel to popular Phantasie. Search for the evil orb, remove the curse from an island kingdom. Create a party of up to six characters, re-use characters from part I. Map terrain, solve puzzles, learn spells, etc. Introductory level

Publisher: Format:

Strategic Simulations

Disk

\$39.95 (US) Price:

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Atari-ST ___

Software

Sundog, The Frozen Legacy

Combines graphics, action and problem-solving. Uses 'zoom action' display. Move around plan-view map, then zoom in on specific areas to interact with detailed environment, interact with characters, etc. Travel from planet to planet.

Publisher:

FTL Games Disk

Format: \$39.95 (US) Price:

Ultima II

Classic second chapter in the Ultima series pits you against Mondain's apprentice, Minax. Travel across scrolling display of earth in seven different time periods, and finally explore strange planets in space.

Publisher: Format:

Origin Systems

Price: Availability:

Disk \$79.95 STari

Wizard's Crown

Recover the Crown from behind spell-woven walls in the shattered ruins of Arghan. Create eight characters, search for clues and weapons among the maze of streets, buildings and dungeons. Intermediate level of play.

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

SIMULATION GAMES

Bridge 4.0

Popular simulation of the card game. ST version uses full graphics and mouse, works with both color and monochrome display

Publisher: Format:

Artwork Disk

Price: Availability: \$29.95 (US)

Ingram

Cards

Five classic card games: Solitaire, Klondike, Poker Squares for solo play, Cribbage versus the computer, or

four against the computer in Blackjack. Color only. Publisher:

MichTron

Format: Price:

Disk

Availability:

\$59.50 STari

Compubridge

Bridge tutorial based on 'Contract Bridge, Five-Card Major Approach' by Silverman, Jais and Lebel. Includes 10 chapters, convering all aspects of the game, plus series of randomized play quizzes. Entirely mouse operated, not copy protected.

Publisher: Format:

Artworx

Availability:

\$29.95 (US)

Computer Baseball

Create and manage any team you like in strategy simulation of the popular sport. Teams Data disks with Statistics Compiler available for 1980 through 1984, \$15 each (not all years for all systems).

Publisher:

Strategic Simulations

Format: Disk Price:

\$39.95 (US)

Electro Solitaire & 21

Computerized versions of two popular card games. "Just think, point and play **Publisher:**

Format:

Soft Logik Disk

Price: Availability: \$29.95 STari

Flip Side

Animated graphics display the game of Reversi (aka Othello). Play against another person or against the computer in one of 6 skill levels. Computer can suggest moves, switch sides or set up positions. Color only

Publisher: Format:

MichTron Disk

Price: Availability: \$59.95 STari

HippoBackgammon

Simulation of the popular board game. Features animated color or monochrome graphics, robot players.

Hippopotamus Software

Publisher:

Format: Price:

Disk \$39.95 (US)

Mom and Me, Murray and Me

Your own computerized Jewish mother or Jewish uncle. Computerized cartoon character speaks to you by name, contains extensive personality files to produce wide variety of human-like responses

Publisher: Format:

Antic, Just For You Disk

Price:

\$19.95 (US)

Silent Service

Graphic simulation of submarine service. Attack enemy convoys, avoid patrol boats. Choose your own patrol sectors, attack submerged or on the surface, day or night.

Publisher:

MicroProse

Format:

\$34.95 (US)

Word For Word

Crossword game in which players take turns creating words on playing board, using letters randomly chosen by the computer. For 1 to 4 players. Three skill levels, optional time limit, over 20,000 word vocabulary, etc. Color or monochrome

Publisher: Format:

Bay View Disk

Price:

\$59.95

Availability:

HOBBIES

MISCELLANEOUS

Allows the ST to control electric appliances such as thermostats, lights, etc, for security or energy conservation. Timer takes weekends and holidays into account. Uses inexpensive X-10 remote plug-in modules for wireless

Publisher: Format:

MichTron

Disk \$59.50

Availability:

Hippo Computer Almanac

Compendium of 35,000 useful facts. English-like queries.

Publisher:

Hippopotamus Software

Format: Price:

\$34.95 (US)

Hippo Jokes & Ouotes

Thousands of jokes, quotes and puns. Not for the kiddies.

Publisher:

Hippopotamus Software

Format: Price:

Disk \$34.95 (US)

Star Struck, The Astrologer

Instantly generates natal charts. Includes online help, built-in US and world maps for easy birthplace location. Charts can be printed or save in Degas format. Uses GEM interface, compatible with color or monochrome display.

Publisher: Format:

Antic Disk

Price:

\$24.95 (US)

TECHNICAL

PROGRAMMING LANGUAGES

A-Seka

Entirely RAM-resident macro assembler, editor, monitor/ debugger. Provides symbol table access, arithmetic in any base, dissassembly, step & trace, etc. Files limited only by

Publisher:

Antic, Kuma

Format:

Disk

Price: \$34.95 (US)

Easy-to-use compiler, provides GEM-based environment, batch operation, fits on one single-sided disk. Includes GEM text editor, linker, shell environment, 68000 assembler, GEM libraries, simplified GEM operations library, etc.

Publisher: Format: Price:

Antic, GST Disk \$79.95 (US)

GST-ASM Macro assembler with advanced features such as flowcontrol instructions, fast throughput. Uses GEM environment, includes text editor, linker, shell program, macro

library, etc. Publisher: Format:

Antic, GST Disk

\$59.95 (US) Price:

Complete Forth programming environment based on recent Forth-83 standard. Allows access to all ST memory, GEM hooks, etc. Includes graphics, MIDI and printer support, floating point and integer math, etc.

Publisher: Format:

Price:

H&D Forth

Mirage Disk

Availability:

\$74.95 Micro D, Multimicro, Ingram

Atari-ST -

Software

Megamax C for the Atari ST

Powerful development system includes full K&R implementation, GEM support. Features one-pass compilation, in-line assembly coding, register variable support, peephole code optimizer, GEM-based windowing editor, librarian, disassembler, etc.

Publisher: Megamax Format: Disk Price: \$375.00 Availability: STari

Metacomco Lattice C

Full K&R implementation. Features poweful data types, separate compilation, macros, error handling including warning errors. No runtime license required for applications. Includes libraires, full-screen editor, linker.

Publisher: Antic, Metacomco Format: Disk (2) Price: \$149.95 (US)

Metacomco MCC Pascal

Fully ISO 7185 compatible, produces native 68000 code, addresses full memory space, allows very large sets and arrays, gives comprehensive error handling. Includes linker and full-screen editor.

Publisher: Antic, Metacomco
Format: Disk (2)
Price: \$99.95 (US)

Metacomco Macro Assembler

Complete development system, features macros, formatted listings, conditional assembly, cross-reference listings, 30-character variable names, etc. Includes linker and full-screen editor.

Publisher: Antic, Metacomco
Format: Disk
Price: \$79.95 (US)

Personal Pascal

Pascal development system with easy-to-use features such as Pascal Manager menu-operated organizer. Includes program editor, linker, GEM libraries. Editor shows error locations highlighted. Support via telephone, BBS and CompuServe.

Publisher: Optimized Systems
Format: Disk
Price: \$112.50

Price: \$112.5 Availability: STari

Philon Fast/BASIC-C

Complete commercial applications development compiler based on CBASIC syntax. Features runtime libraries, interactive debugger, code optimization for either size or speed, chaining, modularity and compatibility with other Philon languages.

Publisher: Philon
Format: Disk
Price: \$223.50
Availability: STari

Philon Fast/BASIC-M

MBASIC compatible language system. Compiler \$193.50, supports modularity, chaining, various arithmetic formats, etc.

Publisher: Philon
Format: Disk
Price: \$79.50
Availability: STari

Philon Fast/COBOL

Complete COBOL development system. **Publisher:** Philon **Format:** Disk

Price: \$448.50 Availability: STari

Philon Fast/FORTRAN

Full implementation of ANSI standard FORTRAN 77 compiler. Offers complete set of runtime libraries, optimized code, modular compilation, compatibility with modules compiled in other Philon languages.

Publisher: Philon
Format: Disk
Price: \$448.50
Availability: STari

Philon Fast/Pascal

Complete Pascal compiler and development system

Publisher: Philon
Format: Disk
Price: \$193.50
Availability: STari

Pro Fortrai

Complete implementation of ANSI Fortran 77. Native-code compiler with numerous options. Works on Z80 systems with 48K and two 100K-minimum drives. Includes linker, libraries, librarian, X-ref utility, sample programs.

Publisher: Prospero Software
Format: Disk
Price: \$149.00 (US)

Pro Pascal

Complete implementation of ANSI 770X3.97 Class A (no errors) standard, with many extensions. Includes linker, libraries, librarian, X-ref program, smaple programs, 200-nage manual

Publisher: Prospero Software
Format: Disk
Price: \$149.00 (US)

TDI Modula-2

Complete 68000 development language, includes standard Wirth Modula plus machine-specific libraries. Creates native 32-bit code. Includes full screen editor with error-finding capability.

finding capability.

Publisher: TDI
Format: Disk (2)
Price: \$119.95

Availability: STari

TDI Pascal

Complete UCSD Pascal implementation. Includes UCSD screen editor, filer and other utilities. UCSD Tool Kit and assembler \$119.95. Other UCSD packages also available.

Publisher:TDIFormat:Disk (2)Price:\$119.95Availability:STari

UCSD Pascal

Complete implementation of standard Pascal language. Includes text editor, on-line tutorial, 8087 coprocessor support, BCD support, etc.

Publisher: Pecan Software Systems Inc

Format: Disk Price: \$79.95 (US)

OPERATING SYSTEMS

Micro RTX

Fully multi-tasking extension to GEMDOS. Allows multiple TOS applications to run concurrently in the background or foreground.

Publisher: Beckemeyer Development Tools Format: Disk

Price: \$69.95 (US)

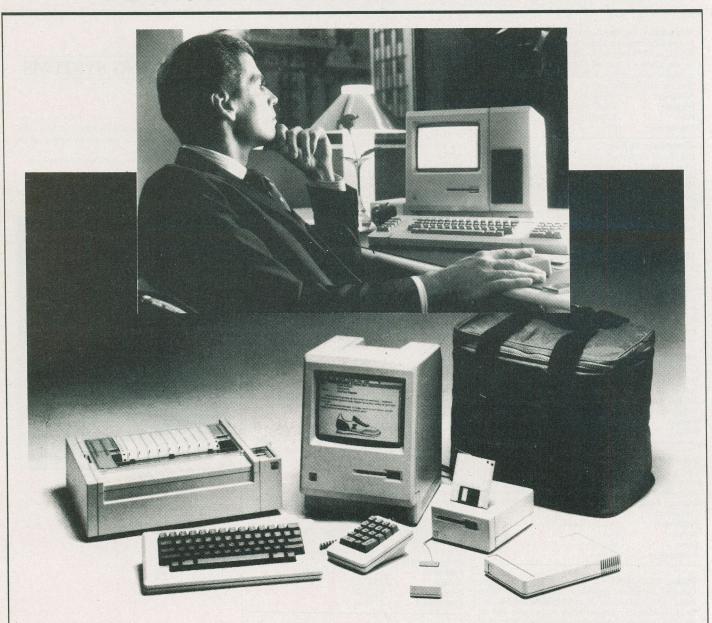




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MACINTOSH SECTION



SYSTEMS MACINTOSH

Macintosh 512K/800

Operating System: proprietary **Processor:** 68000 Standard RAM: 512 Maximum RAM: 512 I/O Ports: serial, parallel

Disk Drives: 1x400K Text Display: 80x24 **Hi-res Graphics:** 512x342 Sound: yes, 4 voices **Available From:** Apple Canada \$3399.00 Price:

Includes some software. Uses mouse, windows and pulldown menus. Built-in 9-inch black & white monitor, builtin microfloppy drive. Bitmapped display. Serial port is RS-422. Upgrade to 128K ROM and 800K drive, \$490. Available in French.

Macintosh Plus

Operating System: propietary **Processor:** 68000 Standard RAM: 1024 Maximum RAM: 4096 I/O Ports: serial, parallel Disk Drives: 1x800K Text Display: 80x24

Hi-res Graphics: 512x342 Sound: yes, 4 voices Available From: Apple Canada Price: \$4195.00

Includes System Tools, Software Sampler and Guided Tour disks, tutorial cassette. Uses mouse, windows, pulldown menus. Black & white monitor, single microfloppy drive built in. Ports include RS-422 serial, SCSI parallel. Also in French.

EXPANSION HARDWARE

HyperDrive 2000

Function: auxilliary processor Manufacturer: General Computer Price: \$3195.00 (US)

Combination of 12 MHz 68000 processor, 1.5M RAM, 68881 floating-point math coprocessor, and 20M hard disk. Mounts internally

JamBox/4

Function: I/O port

Southworth Music Systems Manufacturer: \$389.00 (US)

Price:

Hardware

Macnintosh Plus 1Mb Logic Board

Function: memory expansion Manufacturer: Apple Apple Canada Available From:

Increases older Macintosh to Mac Plus 1M RAM standard Requires M2516 ROM & Drive Kit, must be installed by authorized dealers. Price shown is for 512K Mac. For 128K Mac. \$1310

MaxPlus

Function: memory expansion Manufacturer: MacMemory

n/a

Provides 2M of RAM for Mac Plus, expands system to full 4M capacity. Includes MaxRAM, MaxPrint software, MaxChill internal cooling fan.

MicahMemory 2/4

Function: memory expansion Manufacturer: MICAH \$595.00 (US) Price:

Internal memory expansion board for Mac Plus, compatible with MicahDrive internal hard drives. Price shown is for 2M version. Four megabyte card \$895 US.

NetWay 1000A

Function: I/O port

Manufacturer: Tridata Products

Available From: McKenzie Brown Canada

Price: \$4395.00

Gateway for connecting Macintosh under AppleTalk network to an IBM mainframe. Supports up to 16 Macs in simultaneous sessions. Includes BSC emulation software. Also available with SNA/SDLC software, \$4695

Omninet Network Interface

Function: I/O port Manufacturer: Corvus Systems

Available From: Corvus Systems (Canada)

\$395.00 Price:

High performance LAN interface, enables Mac and Mac Plus users to connect along with IBM PCs and Apple IIs. Disk management software allows access to Corvus OmniDrive network servers, \$695 per network. Supports spooling, file transfer, etc.

TheMax 2

Function: memory expansion Manufacturer: MacMemory \$545.00 (US) Price:

Provides 2M of RAM for Mac, expandable to 4M using megabit chips. Supports new Apple ROM set and 800K

floppy disk drive kit.

STORAGE DEVICES

3Server Expansion Disk

Manufacturer: 3Com hard, external Type: 70 megabyte Capacity: \$4995.00 (US) Price:

Connects to Mac Plus SCSI port, works under Apple Hierarchical File System with no partitioning. Up to 7 drives can be daisy chained. Compatible with EtherMac network 3Server dedicated file server. DiskPlus kit to allow SCSI use, \$150.

AST-4000

Manufacturer: **AST Research** Type: hard, external Capacity: 74 megabyte

McKenzie Brown Canada Available From:

\$12495.00

Includes 60M streaming-tape cartridge drive, cables, Mac-Serve networking software. Image or file backup. Runs most Mac applications. Average 30 msec access time. For Mac Plus only, plugs into SCSI port.

DataFrame

Manufacturer: SuperMac Technology Type: hard, external

Capacity: 20 megabyte Price:

Plugs into SCSI port on Mac Plus. Allows daisy-chaining of up to 8 drives or other SCSI peripherals.

HD-20, HD-30

Manufacturer: **MDIdeas** hard, external Type: Capacity: 20 megabyte \$1095.00 (US)

External hard disk systems for the Macintosh Plus SCSI expansion port. Designed to provide a base for the Mac unit. Price shown is for HD-20. HD-30 holds 30M, sells for \$1595 US.

Hard Disk 20

Manufacturer: Apple hard, external Type: Capacity: 20 megabyte **Available From:** Apple Canada Price: \$2495.00

Average seek time 85 msec, 500 kilobit/sec serial data transfer. Includes Hard Disk 20 driver, Hard Disk 20 Finder, ImageWriter driver, and Hard Disk 20 File System software. Uses hierarchical file structure. Needs at least

HyperDrive 2000

Manufacturer: General Computer hard, internal Type: 20 megabyte Capacity: \$3195.00 (US) Price:

Combination of 20M hard disk with fast 12 MHz 68000 processor, 68881 floating-point math coprocessor, and

1.5M RAM expansion.

HyperDrive, HyperDrive 20 Manufacturer: General Computer

hard, internal Type: Capacity: 20 megabyte \$1699.00 (US) Price:

Internal hard disk for the Mac. Price shown is for 20M. For 10M version, \$1399.

Keeper Pro (series)

Manufacturer: Micro-Design Type: hard, external Capacity: 10 megabyte

Available From: McKenzie Brown Canada

\$3995.00

Self-contained file server for networked or individual Macintosh. Allows multiple users to access files simultaneously, dynamically-sized volumes. PRO-10 10M version as shown. PRO-20 with 20M, \$4995. PRO-30 with 33M, \$5995

Keeper SQ (series)

Manufacturer: Micro-Design Type: hard, external Capacity: 25 megabyte

Available From: McKenzie Brown Canada \$7895.00

Price:

Self-contained smart file servers for single or networked Macs. Price is for SO 5-20, with 20M fixed and 5M removable cartridge. SQ 5-10 with 10M fixed, 5 removable, \$6895, SO 5-30 with 30 fixed, 5 removable \$8895. SQ 5 removable 5M, \$4095.

MacBottom 20

Manufacturer: Personal Computer Peripherals

hard, external Type: Capacity: 20 megabyte

Price: n/a

Fits under Macintosh, has built-in power-failure detection. Connects to modem or printer port. Allows variable-size volume allocation from the desktop.

Macintosh 800K External Drive

Manufacturer: Apple floppy, external Type: Capacity: 800 kilobyte Available From: Apple Canada

Price: \$805.00

Outboard second drive, uses double-sided double-density format, accepts 400K single sided disks, transfers data at double the speed. Requires Mac Plus, Mac 512K with 800K internal drive upgrade, or Mac 512K with Update software.

MicahDrive 10 AT, 20 AT Manufacturer: hard, internal Type: Capacity: 20 megabyte \$1895.00 (US) Price:

High-speed internal hard disks for Fat Mac and Mac Plus. Include built-in interface, fan and power supply. Userinstallable by clipping onto main logic board. Support HFS, Finder 5.1, boots from hard disk. Ten meg version

Quark QC-10

Manufacturer: Quark Type: hard, external Capacity: 10 megabyte

Available From: McKenzie Brown Canada

Price: \$1995.00

Average 99 msec access time. Can be divided into over 60 volumes, with password protection. Can have Mac, Pro-DOS, etc simultaneously in different volumes.

Quark QC-20

Manufacturer: Type: hard, external Capacity: 20 megabyte

Available From: McKenzie Brown Canada

\$2695.00 Price:

Average 85 msec access time. Allows multiple volumes, with password protection. Can run Macintosh, ProDOS, etc in different volumes

Hardware

MISCELLANEOUS

Granny Smith Connection

Manufacturer: Zap Technologies **Function:** Printer Interface Available From: Select Marketing

\$149.95 Price:

Connects to serial port on Apple IIc or Macintosh, pro-

vides Centronix-type port for printer.

HippoClean

Manufacturer: Hippopotamus Disk Cleaning **Function:** \$29.95 (US) Price:

Disk head cleaning kit for microfloppy drives. Includes fluid, disk and instructions

Kraft QuickStick

Kraft Systems Manufacturer: Function: Controller Available From: Ingram \$69.95 (US) Price:

Switch-selectable joystick and mouse modes. Price shown is for 2-button model. Three-button model \$79.95 US.

Kurzweil 250 Advanced Sampler

Manufacturer: Kurzweil Music Systems Function: Music Keyboard Price: \$20000.00

Piano-type velocity-sensitive keyboard, with 88 wooden keys. Features built-in 12-track sequencer, plus Contoured Sound Modeling sampling technology. Price ranges up to \$25,000. Requires MacAttach Communications package. Fat Mac suggested.

MIDIBOARD

Kurzweil Music Systems Manufacturer:

Music Keyboard Function: \$3995.00

MIDI controller with 88 wooden keys, velocity and impact sensitive, features Polyphonic Key Pressure Sensitivity to control brightness, tremolo, pitch or any other contour. Requires MacAttach Communications Package. Fat Mac recommended.

Macintosh French Canadian Kit

Manufacturer: Apple **Function:** Keyboard Available From: Apple Canada \$295.00 Price:

Includes keyboard, plus French version of MacWrite, MacPaint, System Disks, Converts standard English Mac into Western French version.

Macintosh Numeric Keypad

Manufacturer: Apple **Function:** Keypad **Available From:** Apple Canada \$160.00

Small extension keypad for fast numeric entry.

Macintosh Plus Keyboard Upgrade

Manufacturer: Apple **Function:** Keyboard Apple Canada Available From: \$215.00 Price: New style keyboard for Mac Plus. Also available in

PC MacKey

Manufacturer: Tangent Technologies **Function:** Keyboard

Available From: McKenzie Brown Canada

\$459.00 Price:

Replacement keyboard for Mac, uses IBM AT style layout with numeric/cursor pad, 10 function keys and software to allow configuration for up to 80 separate commands. Cursor keys emulate Mac keypad keys, supported by Microsoft Word, etc.

Softstrip System

Manufacturer: Cauzin Systems Strip Code Writer/Reader **Function:**

\$199.95 (US)

Allows user to write or read special dot-coded bars, for storage of any data or program file. System includes Softstrip reader unit and connectors, plus software to drive dot matrix printer for outputting strips.

StudioMac Synthesizer Kit

Manufacturer: Creative Solutions Function: Music Expansion Kit Price: \$595.00 (US)

Complete music kit, includes Casio CZ-101 synthesizer, StudioMac software and MIDI adapter. Software alone

System Saver Mac

Manufacturer: Kensington Microware Function: Surge Suppressor/Fan

Available From: Gentek \$99.95 (US)

Includes two switched power outlets for peripherals, surge protection and cooling fan. Two power switches, allows hard drive or other peripheral to be switched separately, if

ThunderScan

Manufacturer: Thunderware **Function:** Digitizing Scanner \$229.00 (US)

Replaces normal ImageWriter printer ribbon cartridge, scans any document that can be inserted in printer, includes software to accept digitized input at up to 288 dots per inch, in 16 shades of grey.

Videx Time Wand

Manufacturer:

Function: Bar Code Reader \$347.00 (US) Price:

Calculator-sized bar code scanner, comes with 2K internal memory, upgradeable to 16K. Automatically time stamps each code as read. Recharge/download station uses RS-232 connection. IBM software \$299 US extra, Mac software \$499 US.

PRINTERS

Apple Scribe

Price:

Manufacturer: Apple Type: dot matrix, color

Print Speed: 80 cps draft, NLQ **Print Modes:** Graphics: Interface: serial Apple Canada **Available From:**

Non-impact matrix, prints 7 colors, near-letter quality at 50 cps, graphics at up to 1280 dots per line. Connects to RS-232-C, includes Accessory Kit for Apple II, IIe or IIc.

\$395.00

Epson AP-80

Print Modes:

Manufacturer: Epson dot matrix Type: **Print Speed:** 75 cps

Graphics: yes **Download Fonts:** yes parallel Interface: **Available From:** Epson Canada \$619.00 Price:

Prints near-letter quality at 15 cps, includes friction and

draft, NLQ

tractor feed. Emulates Apple ImageWriter.

ImageWriter II

Manufacturer: Apple

dot matrix, color Type: 250 cps draft, NLQ **Print Speed: Print Modes: Graphics:**

Download Fonts: yes Cut Sheet Feed: yes Interface: serial Apple Canada **Available From:** \$1125 00 Price:

Color ribbon prints 7 colors. Near-letter quality at 45 cps. Price includes Accessory Kit for Apple II or Macintosh. Apple IIe requires serial card. Sheet feeder \$345. AppleTalk Network interface \$215. Ten-inch carriage ver-

sion, \$1045.

LaserWriter

Manufacturer: Apple Type: laser **Print Speed:** 8 ppm Print Modes: letter **Graphics:** yes Download Fonts: yes Cut Sheet Feed: yes Interface: serial Apple Canada Available From: Price: \$9495.00

Based on Canon LBP-CX engine, prints 300x300 dots per inch, uses letter, legal, A4, B5 paper sizes. Programs in PostScript, or subset of Diablo 630. Many extra fonts. Includes 500K ROM, 1.5M RAM. Upgrade to Laser-

Writer Plus, 1M ROM, \$1310.

Mannesman Tally MT 85

Mannesman Tally Manufacturer: dot matrix Print Speed: 180 cps draft, NLO **Print Modes: Graphics:** yes **Download Fonts:**

serial, parallel Interface: Sak Data Products Available From:

Price: \$890.00

Prints near-letter quality at 45 cps, graphics at up to 240 dots per inch. Interface modules allow IBM, Epson FX and Apple Imagewriter emulation. Plug-in font cartridges.

Mannesman Tally MT 86

Mannesman Tally Manufacturer: Type: dot matrix Print Speed: 180 cps draft, NLO **Print Modes:** Graphics: yes **Download Fonts:** yes

serial, parallel Interface: **Available From:** Sak Data Products \$1050.00 Price:

Wide-carriage version of MT 85. Prints near-letter quality at 45 cps, graphics at up to 240 dots per inch. Interface modules allow IBM, Epson FX and Apple Imagewriter

emulation. Plug-in font cartridges.

Macintosh =

Software

UTILITY **DESKTOP MANAGERS**

Battery Pack

Set of 9 desk accessories, includes appointment calendar, 250-page phone-number keeper and freeform database, modem/dialer, scientific calculator, disk access, fast application changer bypasses Finder, file printer, window finder

Publisher:

Batteries Included

Format: Price:

Disk \$49.95

DeskToppers

Set of 5 desk accessories includes Calendar, Little Black Book, Doodle Pad, Music Maker & Scrapbook Library. Keeps up to 26 pages of names, addresses, phone numbers. Creates and saves sketches, tunes. Copyable to other Mac disks.

Publisher:

Harvard Associates

Format: Price:

Disk \$49.90 (US)

Availability:

Ingram

Habadex

Combines several frequently-used functions: database, telephone directory and dialer, appointment calendar, label printing and mail merge, etc. Uses usual Macintosh convensions . . . icons, mouse, etc.

Publisher: Format:

Haba Systems Disk

Price: Availability: \$99.95 (US) Ingram

MacCalendar

Stored with other Macintosh accessory programs such as Notepad, Calculator, etc, and always available even when other programs are in use. Replaces clock accessory with a complete calendar and appointment-reminder tool.

Publisher: Format:

Videx Disk

Price: Availability: \$99.95 (US) Ingram

TimeLink

Electronic diary program. Displays daily, weekly, monthly and yearly information, uses multiple windows with instant updating between time frames, calculates time between dates, provides record-keeping database with search, sort, etc.

Publisher:

Batteries Included

Format:

Disk

Price:

FILE MANAGERS

Disk Ranger

Catalogs and labels disks, finds files, helps elimininate duplications. Compatible with HFS and Mac Plus.

Publisher: Format:

Mainstay Disk

Price:

\$49.95 (US)

HD Back-Up

Copies all data from hard disk or other storage area to floppy disk. Does global or file backup and restore. Performs 'disk-count', showing how many floppies will be required. Verifies stored data. Works with all hard drives, HFS and MFS.

Publisher: Format:

PBI Software Hard disk \$49.95 (US)

Price:

HFS Locator Plus

Desk accessory allows locating, deleting, copying, launching and renaming files from within any application program. Avoids time-consuming recourse to the Finder. Finds files by date, creates new folders, etc.

Publisher:

PBI Software Disk

Format: Price:

\$24.95 (US)

Switcher Construction Set

Partitions Macintosh memory to allow several applications programs to co-reside in RAM. Allows instant switching between programs with optional cut-and-paste from one to another.

Publisher:

Apple Computer Inc

Format: Price:

\$25.00

MISCELLANEOUS

Copy II Mac

Backup utility for Macintosh disks. Copies protected software, protects/unprotects files, makes files visible/ invisible, locks/unlocks, renames files, copies files, edits track/sector, verifies disks, etc.

Publisher: Central Point Software

Format:

Disk

Price:

\$39.95 (US)

DeskScene

Allows user to replace patterned desktop background with any MacPaint picture. 'Kick-start' routine and picture are installed on the System file. Can randomly change desktop on each boot-up if more than one image is installed.

Publisher: Format:

PBI Software

Price:

Disk

\$29.95 (US)

FlashBack

Speedy backup program for HFS hard drives. Provides selective backup of files by category. Supports Mac Plus.

Publisher: Format:

Mainstay Disk

Price:

\$59.95 (US)

HardDiskUtil Allows copy-protected Mac software to be run from hard disk without use of key floppy disk.

Publisher:

FWB Software Disk

Format:

Price:

\$89.95 (US)

MacSpool

RAM resident printer spooler, works with text and graphics, compatible with most applications programs and screen dumps, allows change of application while printing. Supports Mac Plus.

Publisher: Format:

Mainstay Disk

\$49.95 (US)

Desktop organizer, runs concurrently with most PC software, uses windows to display full-function calculator, memo pad, appointment calendar, ASCII character table, phone directory, and modem auto dialer. New Mac version supports Mac Plus.

Publisher:

Borland International

Format:

\$99.95 (US)

Price: Availability:

Ingram

Tempo

Macro utility, allows recording on the fly, playback from within most applications programs, linking macros, etc.

Publisher:

Affinity MicroSystems

Format: Price:

Disk \$99.00 (US)

Desk accessory allows type-through directly from keyboard to ImageWriter, for addressing envelopes or turning

Publisher:

Format: Price:

Disk \$39.95 (US)

BUSINESS WORD PROCESSORS

Conjugueur, Le

Desk accessory to aid writing in French, provides correct conjugtation of French verbs for specified infinitive, per-

Publisher:

Editions Ad Lib

Format:

Disk

Price:

\$49.95 (US)

Cut & Paste Word Processor

Extremely user-friendly, easy-to-use word-processor designed for the complete novice. Functions such as searchand-replace, block move, block copy, etc are accessed through a menu-bar. Not available for Apple II +, only //e.

Publisher: Format:

Electronic Arts

Price:

Disk \$19.95 (US)

Availability:

Beamscope, Ingram

Hayden Speller Spelling checker, supports MacWrite and Microsoft Word

vides word frequency lists. Publisher: Format:

text formats. Allows creation of custom dictionaries, pro-Hayden Disk \$79.95 (US)

Price: Availability: Ingram

Letterhead

Integrates word-processing, address file and graphics capabilities. On-screen windows let you choose business and personal letter formats, typefaces, etc. Print labels, stationery with custom graphics. Supports most dot-matrix

printers Publisher: Format:

Broderbund

Disk

Price: Availability: \$79.95 (US) Beamscope

Software

MacLightning

Memory-resident spelling, grammar checker. Beeps warning, finds error, corrects onscreen. Also works in standalone mode on entire document, at up to 60 words per second. Includes 80,000 word dictionary. Thesaurus addon library, \$49.95 US.

Publisher: Target Software

Format: Disk \$99.95 (US) Price: **Availability:** Ingram

MacWrite

Easy, mouse and menu based word processor. Features 7 typefaces, expandable using Fontmover utility, in sizes from 9 to 24 points, bold, shadowed, etc. Justify, mailmerge, headers/footers, etc. Merge graphics. Also in French.

Publisher: Format: Price: Availability: Apple Disk \$70.00 Apple Canada

Microsoft Word

High-power package includes usual features plus 50-page online reference guide, mouse support, undo command, up to 8 windows, display of italics, boldface, underlining (with graphics card), mailmerge, footnotes, etc. Mac version \$195 US.

Publisher: Format:

Microsoft Disk \$450.00 (US)

Availability: Ingram, Radio Shack

More

Price:

Enhanced version of ThinkTank outline processor, adds support for up to 6 files open in windows, automatic display and printing of bullet charts, creation of graphic tree charts, plus advanced outlining features.

Publisher:

Living Videotext

Format: Price:

Disk \$295.00 (US)

MultiWrite

Advanced word processor features up to 12 document windows with cut and paste, block functions on multiple blocks, built-in outlining functions, word count, etc.

Publisher: Format:

MindWork Disk \$79.00 (US)

Price:

Realtime spellchecker, works as you type or corrects after you've finished. Works with most word processors or other applications. Includes 21,000 dictionary, expanda-

Publisher: Format: Price:

Mainstay \$59.95 (US)

Spelling checker, features automatic correction of multiple errors, displays words in context, checks homonyms, suggests corrections, etc. Includes 60,000 word modifiable dictionary, supports MacWrite, Word, ThinkTank, etc.

Publisher: Format:

Greene, Johnson Disk

Price:

\$49.95 (US)

ThinkNow

Outline processor desk accessory, works with most word processors or other applications. Expands or contracts outlines, etc.

Publisher: Format:

Mainstay Disk

\$59.95 (US) Price:

ThinkTank

Idea processor, makes it easy to take and organize notes. Organizes ideas and concepts into outline format, expands any entry to further levels of detail. Works as a textprocessing environment. Apple version needs 128K RAM.

Publisher: Living Videotext Format: Disk

\$195.00 (US) Price:

Word Handler

Advanced word processor, features multiple document windows, horizontal scrolling, word count, case change, online help, etc.

Publisher: Format:

Advanced Logic Systems Disk

\$79.95 (US) Price: Availability: Ingram

WordPerfect

Includes advanced features such as footnotes, text columns, math functions, mail merge, spell-checker with 30,000-word user-expandable dictionary. Macintosh and Amiga versions to be available by end of 1986.

Publisher: Format:

SSI Software Disk

\$650.00 Price:

DATA MANAGERS

1st Base

Features joining of related files, program writing, arithmetic and logical operations, reports formatting, sort, search, mail merge, etc. Integrates with other Mac programs. Up to 100 fields, 5000 characters per record. Uses 128K or 512K.

Publisher: Format:

DeskTop Software Disk

Price:

\$195.00 (US) Availability: Ingram

Business Filevision

Expanded version of original graphics-oriented database. Includes original combination of graphics and data functions, expands both.

Publisher: Format:

Telos Software Disk \$395.00 (US)

Price: Availability: Ingram

Lets a user create large text fields up to 3,000 characters, store formulas, print reports. Ten sort levels available. Uses all Mac and GEM features: windows, mouse, etc. Files up to 200K on one disk, multiple-disk files supported

Publisher:

Stoneware

Format: \$195.00 (US) Price:

Availability:

Ingram

Filevision

Unique graphics-oriented database. Uses all Macintosh features, pull down menus, windows, etc. Unites Mac-Paint type graphic functions with standard database features such as search, report, etc.

Publisher: Format:

Telos Software Disk

Price: \$195.00 (US)

Availability: Ingram

Full-featured data manager based on graphic interface. Advanced version double Helix, \$495 US. MultiUser and RunTime modules also available.

Publisher:

Odesta Disk

Format: Price:

\$395.00 (US) Availability: Ingram

I Know It's Here Somewhere!

Personal filing system, allows creation of custom forms layout, sorting, searching using multiple criteria, up to 5 files open at once. Includes sample forms.

Publisher: Format:

Havden Disk \$59.95 (US)

Price: **Availability:** Ingram

MacRase

Relational database. Custom forms screens. Number of fields limited only by memory, number of records limited only by disk space. All calculated and reporting fields appear onscreen.

Publisher:

Eqtron Format: Disk \$149.00 (US) Price:

Microsoft File

Forms-based data management system. Interfaces with Microsoft Word.

Publisher: Format:

Microsoft Disk \$195.00 (US)

Ingram

Availability: Omnis 3

Price:

Powerful database manager, supports data files up to 160M, text fields with word wrap, macros, calling other Mac programs, multi-user support, password security, custom pulldown menus, etc.

Publisher: Blyth Software Inc

Format: Disk

\$300.00 (US) Price:

PFS: File

Simple to use card file type database. Offers free-form editing of input screen, variable length fields, multi-page records, plus standard searching, sorting, etc. IBM version \$140 US. Apple II version \$49.95 US. Publisher:

Format:

Software Publishing Disk

Price: \$125.00 (US) Availability: Ingram, Radio Shack

PFS: Report Report generating option for use with PFS:File database. Produces columnar reports, includes totals, subtotals, etc. C-64 version \$69.95 US

Publisher:

Software Publishing

Format: Disk Price:

\$125.00 (US)

Availability: Ingram, Radio Shack

Software

SPREADSHEETS

BTS The Spreadsheet

Features up to 1000 rows, 1000 columns, math, stats and financial functions, logic operators, mouse-adjustable varible column widths, sparse-matrix storage, SYLK file format. Mac and ST package also includes desk accessory version

Publisher:

Batteries Included

Format: Disk \$99 95 Price:

Crunch

Power spreadsheet for the 512K single-drive Macintosh. Integrates graphics, data management and note-keeping capabilities on a single disk. Offers menu of 21 icons on screen menu bar. Up to 250 columns by 9999 rows, 12 fonts

Publisher:

Paladin Software

Format: Disk

Price:

\$149.00 (US)

Excel

Possibly the best spreadsheet available on any computer. Allows multiple windows on one or several files, linking of cells between spreadsheets, complex macro programs. Integrates full-featured chart graphics. Uses mouse, text fonts, etc.

Publisher: Format: Price:

Microsoft Disk (2) \$395.00 (US)

Availability:

Ingram

Multiplan

Popular and powerful spreadsheet program. Allows spreadsheets to be linked together for sharing of information. Includes online 50-page reference/help manual. Tandy 6000 XENIX, \$449. Apple II, \$95 US. Macintosh \$195 US

Publisher:

Microsoft Format: \$245.00 Price:

Availability:

Ingram, Radio Shack

Super Crunch

Offers graphics, data management, note-keeping facility, macros, 3-D worksheets, custom icons, etc. Presents 63 icons on a palette, any 21 displayed on menu bar, up to 25 icons defined as macros. Up to 250 columns, 9999 rows, 250 layers.

Publisher: Format:

Price:

Paladin Software Disk (2) \$295.00 (US)

INTEGRATED

Ensemble

Icon based system combines relational database, report generation, math functions, graphics, word processing.

Publisher: Format:

Hayden Software

Price:

Disk \$99 95 (US)

Availability:

Ingram

Includes three packages: HomeText full screen editor with cut & paste, boldface, mail merge, etc; HomeFind data manager; and HomeTerm communications system with XMODEM protocol, file capture to disk. Menu or commands.

Publisher:

Batteries Included

Format: Price: \$69.95

Availability: Beamscope, Ingram

Quartet

Combines spreadsheet with up to 62 columns and 99 rows, graphics, database functions

Publisher: Format:

Haba Systems Disk \$49.95 (US)

Price: **Availability:** Ingram

FINANCIAL

Back to Basics Accounting System

Double-entry accrual accounting system, consisting of interactive AR, AP, and GL packages. Many features. Price shown is per module. Also available in various combinations.

Publisher: Format:

Price:

Peachtree Disk (2) \$195.00 (US) Availability: Ingram

Financial Cookbook

Menu-driven financial calculations designed to be used without any prior knowledge of either finance or computing. Pick from over 30 types of calculations, fill in input form and get tabular results. Supports printers.

Publisher: Format:

Price:

Electronic Arts Disk \$69.95

Availability:

Beamscope, Ingram

I*S Time and Billing

Professional office management system, includes Daily Records, Automatic Billing, AR, Billing Breakdowns, electronic mail. Uses GEM interface

Publisher: Format:

Batteries Included Disk

Price:

n/a

Isgur Portfolio

Sophisticated stock-portfolio management system designed for both the individual and the professional broker. Downloads from CompuServe, Dow Jones or The Source. GEM interface with function key options. Macintosh & ST versions \$199.95.

Publisher:

Batteries Included

Format:

Disk \$269.95

Price: Availability:

Beamscope, Ingram

Maccountant Ver 2.0

General Ledger accounting package. Features on-screen help windows, file transfer to Excel or Crunch.

Publisher: Format:

Digital Etc Disk

Price:

\$149.95 (US)

Rags to Riches IV

Includes GL, AR, AP, each available separately for \$199.95 US. Handles up to 5000 accounts, 10,000 transactions. Amiga version is compatible with workbench conventions, supports mouse, icons, windows, multi-tasking,

Publisher: Format:

Chang Labs

Price:

\$499.50 (US)

VersaBusiness Series

Complete accounting systems, including VersaReceivables, VersaPayables, VersaPayroll, VersaInventory and VersaLedger. Price is per module; VersaLedger \$149.95 US. Each can be used separately.

Publisher:

N & E Computronics Inc

Format: Price:

Disk \$99.95 (US)

PROJECT MANAGERS

MacProject

Uses boxes, lines to identify tasks. Project data displayed in several formats, vs schedules, resources, costs, profits. Add new tasks and milestones anytime. Creates charts, reports. Max 2000 tasks in 512K. Also available in French.

Publisher: Format:

Apple Disk \$295.00

Price: Availability:

Apple Canada

GENERAL GRAPHICS

Art Grabber with Body Shop

Desk accessory that enables fast direct transfer of Mac-Paint images. Includes disk of clip-art images.

Publisher: Format:

Hayden Disk

Price: **Availability:** \$49.95 (US) Ingram

ClickArt Special Effects

Desk accessory enhancement for MacPaint, adds advanced commands such as stretch, rotate, distort, etc.

Format: Price:

T/Maker Disk \$49.95 (US)

Availability: Ingram

The first coloring and color printing software for the Mac. Displays grey pattern equivalents on screen, prints color on ImageWriter II with color ribbon. Works with Mac-Paint, MacDraw, Chart, or anything that can be cut to the clipboard.

Publisher: Format:

SoftStyle Solutions

Price:

\$95.00 (US)

Availability:

Ingram

Software

Colormate Art

Set of 130 color images on two disks. Work with Colormate color printing utility

SoftStyle Solutions **Publisher:**

Format: Disk \$45.00 (US) Price: Availability: Ingram

Cricket Graph

Business charting package, does 12 types of graphs, overlays graphs, prints multiple graphs per page, adds text in multiple fonts and sizes. Includes macros, multiple windows. Supports color plotters, LaserWriter, etc.

Publisher:

Cricket Software

Format: Price:

\$195.00 (US)

Da Vinci Buildings, Landscapes, Interior

Sets of clip-art type images for use with MacPaint. Drawn to exact scale for creation of professional-looking plans. Price shown is per set.

Publisher: Format:

Hayden Disk \$49.95 (US)

Price: Availability:

Ingram

Easy3D

Powerful solid modelling tool, allows 3-dimensional objects to be created by rotating 2-D patterns. Adds shading with multiple light sources, etc. Needs Fat Mac.

Publisher:

Enabling Technologies Disk

Format: Price:

Fontastic

Sophisticated font editor, offers large edit window with grid, includes drawing functions, etc

Publisher: Format:

Altsys Disk

\$49.95 (US) Price:

Fontographer

Professional font editor, creates fonts for Apple Laser-Writer or other PostScript printer, bitmap fonts for dot matrix. Character outline defined by curve points, tangent points, corner points. Move, insert, delete, merge, zoom, flip, etc.

Publisher: Format: Price:

Altsys Disk \$395.00 (US)

Graphics Magician Painter & Animator

Screen-drawing program with integrated animation capabilities. Screen images can be stored as "Sequential Picture Code" for fast animation. Provides for file transfer between supported computers.

Publisher:

Penguin/Polarware

Price: Availability: Disk \$39.95 (US) Ingram

Home Design

Lets you create the room of your dreams. Includes over 800 3-D images of basing units such as windows, doors, etc, for use with MacPaint. Includes Hayden's Art Grabber to ease transfer of images

Publisher: Format:

Hayden Disk

Price: Availability: \$79.95 (US)

LaserWorks

Powerful, easy-to-use font creation system, produces downloadable fonts for LaserWriter. Allows input of Mac-Paint graphics, includes full featured screen editor plus menu of special effects such as rotation, italics, light, bold,

Publisher: **EDO Communications**

Format: Disk \$299.00 (US) Price:

Mac the Knife, Vol 1 & 2

Collections of clip-art images for use in MacPaint. Vol 1 has over 500 images, 2 new fonts. Vol 2 has over 20 new fonts, etc

Publisher: Format:

Miles Computing Disk \$49.00 (US)

Ingram

Price: Availability:

Mac the Ripper

Two-disk set of slick clip-art images for use with Mac-Paint, includes specialized display typefaces, etc. Miles Computing

Publisher:

Format: Disk \$49.95 (US) Price: Availability: Ingram

Mac-Art Library

Complete library of MacPaint 'clip art' graphics. Eleven volumes, including: Transportation, Animals, Sports, Geography, Buildings & Houses, Flowers & Trees, Greeting Card Set, Tools, Logos & SIgns, etc, \$29.95 each. Com-

plete set \$200 US. Publisher:

CompuCraft Disk \$29.95 (US)

Format:

Price:

Mouse-oriented 2-D and 3-D drafting system, features custom fill patterns, precision drawing tools, rotation of any design in 3 dimensions, etc.

Publisher: Format:

Challenger Software Disk

Price:

\$195.00 (US)

MacDraft

Advanced CAD tool, includes drawing functions, automatic area calculations, custom fill patterns, auto

dimensioning, movable text, scaled rulers and grids, zoom up to 8x or compress up to 4-ft square in one screen, rotate by degree, etc

Publisher:

Innovative Data Design

Format:

Price: \$269.00 (US)

MacDraw

Object oriented business graphics. Features circles, boxes, lines, move, cut & paste with mouse, pattern fill, delete, resize, zoom, grids, etc. Move drawings to or from Mac-Project, Microsoft Chart, etc. Also in French.

Apple

Publisher: Format: Price:

Disk \$295.00 Availability: Apple Canada

MacPaint

Versatile pixel oriented paint system, provides onscreen icon palette of tools, shapes, pattern fills, brushes, airbrush, etc. Zoom, horizontal scroll over virtual page. Extensive clip-art graphics available. Also in French.

Publisher: Format: Price:

Apple Disk \$70.00

Availability: Apple Canada MacPublisher II

Page layout system, offers advanced features such as kerning, color printing, justification, auto hyphenation, table of contents generator, complete graphics tools, etc. Accepts MacWrite or Word files. Supports ImageWriter, LaserWriter.

Publisher:

Boston Software Publishers

Format:

\$195.00 (US) Price:

Microsoft Chart

Complete business graphics system, does pie, line, bar charts, etc. Programmable chart definitions automatically generate charts from dBase, Multiplan, Lotus files. Macintosh version \$125 US.

Publisher: Format: Price: Availability: Microsoft Disk \$295.00 (US) Ingram

MiniCAD

Complete 2-D and 3-D CAD system. Features 9-decimal precision, 15 layers with color attributes, object library, 27 3-D primitives, cut/paste between 2-D/3-D, wire-frame, solid or shaded objects, unlimited zoom, transfer to PICT file, etc.

Publisher:

Diehl Graphsoft Format: Disk Price: \$395.00 (US)

High-quality page layout system, allows integration of text and graphics, formatting, etc. Includes built-in text editor. Supports LaserWriter

Publisher: Format:

PageMaker

Aldus Disk \$495.00 (US)

Plot-It

Price:

Takes any MacPaint document and plots it. Supports Apple Color Plotter, Hewlett-Packard, Houston Instruments. Allows cropping, scaling, color overlays. Uses modem or printer port, 128K or 512K Mac

Publisher: Format:

Price:

Mesa Graphics Disk \$95.00 (US)

Printworks Changes fonts, typestyles, merges text and graphics, enlarges or reduces printed image, cuts and pastes, etc. Mac version \$75 US. IBM laser version \$125, supports HP LaserJet, Canon, Xerox and NCR, provides Epson MX/ IBM Graphics emulation.

Publisher: Format:

SoftStyle Solutions Disk

\$69.95 (US) Price: Availability: Ingram

ReadSetGo

Page layout program, features diagonal scrolling, text and block editing, up to 40 pages, graphics and rules, print preview, etc. Includes ArtGrabber utility. Text templates available, \$69.95 US. Supports ImageWriter, Laser-

Writer Publisher: Format:

Manhattan Graphics Disk

Price:

\$195.00 (US)

Macintosh =

Software

TDI Andra

Document processor for Epson FX-80 compatible and laser printers. Provides graphic onscreen display of final copy, mouse selected menus, multiple document windows. Not copy protected. Laser version \$749.95.

Publisher: TDI
Format: Disk
Price: \$149.95

Tekalike

Emulates Tektronix graphics terminal on Macintosh. Allows mainframe communications, downloading of images to MacPaint or MacDraw.

Publisher: Mesa Graphics
Format: Disk
Price: \$250.00 (US)

VideoWorks.

Animation system allows easy creation of presentations, storyboards, movies, cartoons. Includes tools for frame-by-frame and realtime animation, assortment of clip-art pictures, tutorials, and examples.

Publisher: Hayden
Format: Disk
Price: \$99.95 (US)
Availability: Ingram

MUSIC

Music Works

Music construction set emulates traditional Macintosh applications, complete with icons, pull down menus, etc. Notes are positioned on the staff using the mouse. Phrasing marks, etc, can be added. Plays multiple voices in various modes.

Publisher: Hayden
Format: Disk
Price: \$79.95 (US)
Availability: Ingram

COMMUNICATIONS

MacServe

Desktop-management interface for networked or standalone Macs. Includes disk partitioning with up to 16 mixed MFS and HFS volumes, passwords, caching, printer spooling, etc. Works with most Mac hard drives.

Publisher: Infosphere
Format: Disk
Price: \$350.00

Availability: McKenzie Brown Canada

Microphone

Complete communications system for Macintosh, includes command language, terminal emulation, etc. File transfer supports XMODEM.

Publisher: Software Ventures
Format: Disk
Price: \$74.95 (US)

PC to Mac and Back

Allows communication between IBM PC and Macintosh. Also provides general purpose communications between RS-232 systems. Includes IBM and Mac disks, cables, etc.

Publisher: Dilithium Press
Format: Disk
Price: \$149.95 (US)

Red Ryder

Powerful communications program, includes macro language, host mode, etc. File transfer supports Kermit, CompuServe B, XMODEM protocols. Distributed as shareware, price is reccommended voluntary donation. Registration includes BBS program.

Publisher: Freesoft
Format: Disk
Price: \$40.00 (US)

RECREATION ACTION GAMES

Dr J & Larry Bird Go One-on-One

Graphic simulation of one-on-one basketball match. Take either defence or offence. Numerous play options available under menu control. Amiga version \$49.95.

Publisher: Electronic Arts Format: Disk Price: \$44.95

Availability: Beamscope, Ingram, Radio Shack

Frogger

The arcade favorite rendered for home computers. Get your frog safely across a busy highway and a treacherous river, leaping and dodging all the way. Macintosh version \$39.95 IIS

Publisher: Sierra On-Line
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Lode Runner

Simple but strategic chase game. Manoever a little man around many levels of brick platforms, up and down ladders, etc. Recover all the treasures before the enemy gets you. Screen-builder utility built-in. Macintosh version \$39.95 US.

Publisher: Broderbund Format: Disk Price: \$39.95

Availability: Beamscope, Ingram, Radio Shack

Pensate

Try to reach the top of an 8x8 checkerboard grid, while avoiding 10 types of opposing pieces, each of which moves in a distinct pattern relative to your own moves. Nine levels plus 2-player game. IBM version \$27.50.

Publisher: Penguin/Polarware
Format: Disk
Price: \$8.95 (US)

Pinball Construction Set

Bill Budge's classic creative game-builder. Moving an onscreen pointer with the joystick the user can assemble various stock components such as bumpers, targets, and obstacles into a working pinball game. Games can be saved to disk

Publisher: Electronic Arts Format: Disk Price: \$44.95

Availability: Beamscope, Ingram, Radio Shack

Sierra Championship Boxing

Set up your boxer's stats: height, weight, reach, etc. Then match him against champs like Ali, Frazier, Tunney. Determine strategy, or go head to head. Graphic display gives you a ringside seat. C-64 version \$24.95 US. Mac version \$20.05

Publisher: Sierra On-Line
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Skyfox

Flying battle game. Pilot a fighter, view enemies and terrain in perspective display. Destroy enemy targets on the ground and in the air. C-64 version \$32.95 US.

Publisher: Electronic Arts
Format: Disk
Price: \$39.95 (US)
Availability: Beamscope, Ingram

Winter Games

Seven different winter sporting events. Uses split screen displays to show overview, first-person view and scores.

Publisher: Epyx
Format: Disk
Price: \$40.00 (US)
Availability: Ingram

ADVENTURE GAMES

Borrowed Time

Play the part of Sam Harlow, private eye in the thirties. Find out who's trying to kill you, collect evidence. Uses keyboard commands, function keys and mouse. Animated illustrations. A two-disk set.

Publisher: Activision
Format: Disk
Price: \$59.95
Availability: Beamscope, Ingram

Brataccas

You are Kyne, a genetic engineer in hiding on the mining asteroid Brataccas. Explore, deal with inhabitants, avoid underworld hit-men. Uses word-balloons to show conversations, scrolling animation display. Supports mouse, joystick or keys:

Publisher: Mindscape, Psygnosis
Format: Disk

Price: \$54.95 Availability: Ingram

Brimstone

Sir Gawain quests to escape the chaotic underworld of Ultro with the five Mystical Words. Electronic Novel text adventure, includes hardbound manual. Atari and C-64 versions \$39.95 US. Atari needs 2 disk drives.

Publisher: Broderbund
Format: Disk
Price: \$44.95 (US)
Availability: Beamscope, Ingram

Computer Novel Construction Set

Allows creation of complete interactive text adventures. Create and connect rooms, devise objects, characters, timed events, then indicate interrelations. No programming skills required.

ming skills required.

Publisher: Hayden

Format: Disk

Price: \$49.95 (US)

Availability: Ingram

Software

Coveted Mirror, The

Animated graphic adventure includes skill and action games that help with the solution. You must escape the prison of the evil king Voar and find the five pieces of the magic mirror. Apple & C-64 versions \$17.95 US, Amiga

Publisher:

Penguin/Polarware

Format: Price: Availability:

\$19.95 (US) Ingram

Crimson Crown, The

Graphic/text adventure. You are a lone hero wandering a nightmare kingdom, exploring caverns and castles, finding magic objects and solving riddles.

Publisher: Format:

Penguin/Polarware Disk

Price: **Availability:**

\$19.95 (US) Ingram

Cutthroats

You are the chief diver at a backwater island, working for some shady characters. Try to recover sunken treasure. Pure text, with sophisticated Infocom command parser. C-64 and Atari XL versions \$34.95 US.

Publisher: Format:

Infocom Disk \$39.95 (US)

Price: Availability:

Ingram, Radio Shack

Cyborg

You become the half human, half computer Cyborg, working with the computer rather than against it. "A game for thinkers." Mouse-activated control panel with text and graphic displays.

Publisher: Format:

Broderbund Disk

Price: Availability: \$39.95 (US) Beamscope, Ingram

Deadline

Highly sophisticated interactive text adventure. You have 12 hours to find the murderer who lurks within the Robner household. Search rooms, interview suspects, find clues. An incredible logic puzzle. C-64 and Atari XL versions \$44.95 US

Publisher: Format:

Infocom Disk \$49.95 (US) Ingram

Price: Availability:

Deja Vu: A Nightmare Comes True

You become a 1940s private eye, suffering from amnesia and locked into a sleazy bar. Try to escape, solve a murder and find your identity before the police get you. Uses windows, pulldown menus, mouse and keyboard commands

Publisher: Format: Price:

Mindscape Disk \$54.95

Availability:

Beamscope, Ingram

First in a trilogy, a successor to the popular Zork series of pure text adventures. You must enter the Castle of the Enchanter, collect spells, and eventually outsmart the Evil Warlock. C-64 and Atari XL versions \$34.95 US.

Publisher: Format: Price: Availability: Infocom \$39.95 (US) Ingram

Board the starship Essex as it races to save the one scientist capable of preventing the destruction of the universe. Unique Electronic Novel text adventure. Includes hardbound manual. C-64, Atari versions \$39.95 US. Atari Broderbund

Publisher: Format:

\$44.95 (US)

Availability:

Beamscope, Ingram

Hacker

Break into the computer network of Magma Ltd, try to run a remote-controlled subterranean laser, travel around the world to track down stolen pieces of The Magma Project document, negotiate with spies, etc.

Publisher: Format: Price:

Activision Disk \$59.95

Availability:

Hitchhiker's Guide to the Galaxy

Ideosyncratic adaptation of the hilarious British radio/TV series. Follow Arthur Dent on a bizarre excursion through the universe following the destruction of Earth to make way for a hyperspace bypass. Pure text. C-64, Atari XL

Beamscope, Ingram

\$34.95 US. **Publisher:** Format:

Infocom Disk \$39.95 (US) Availability:

Infidel

Price:

Working on an archaeological dig in the desert, you have unwisely annoyed your Arab workforce, who abandon you. Alone you must find the lost pyramid, decipher its mysteries, and escape with its treasure. Pure text. C-64, Atari XL \$39.95 US

Publisher: Format: Price: Availability: Infocom Disk \$44.95 (US) Ingram

Mindshadow

You are an amnesiac, travelling across a mysterious island, avoiding perils in swamp, jungle and cave while in search of your identity. A strange bird, the Condor, helps you along

Publisher:

Activision Format: Disk Price: \$59.95 Beamscope, Ingram

Availability:

Mindwheel

Take a trip through four minds: rock star, dictator, poet and scientist. Search out the Cave Master and the Wheel of Wisdom. Unique text adventure in the Electronic Novels series. Atari and C-64 \$39.95. Atari version needs 2 disk drives

Publisher: Format:

Availability:

Price:

Broderbund Disk \$44.95 (US) Beamscope, Ingram

Oo-Topos

Science-fiction adventure. Features text and graphics.

Publisher: Format:

Availability:

Price:

\$19.95 (US) Ingram

Penguin/Polarware Disk

Planetfall

You are freed of the overbearing presence of Ensign Blather when your starship suddenly explodes. You must survive on a strange and hostile world, aided only by Floyd, the somewhat demented robot. Pure text. C-64, Atari XL \$34.95 US

Publisher: Format:

Infocom Disk \$39.95 (US)

Price: Availability: Ingram, Radio Shack

Quest, The

As King Galt's newest advisor you must accompany his champion, Gorn, on a quest to rid the kingdom of a dragon. Over 200 locations, accepts multi-sentence instructions. Many alternate solutions. Text + graphics, two sides of a disk

Publisher:

Penguin/Polarware

Format: Price: Availability:

Disk \$34.95 (US) Ingram

Quest to find a mystical amulet hidden within a deep dungeon maze. Allows multiple plays, generates new dungeon maps. IBM version \$29.97 US.

Publisher: Format: Price: Availability:

Ерух Disk \$40.00 (US) Ingram

Seastalker

Junior-level adventure is a challenge for all ages. Command a submarine on a dangerous mission. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher: Format:

Infocom Disk \$39.95 (US)

Price: **Availability:** Ingram

Sorcerer

Sequel to the Enchanter, and second in text adventure trilogy. Once again you are the novice wizard, now ensconced in the wizards' guild hall. Try to solve the mystery of the missing master wizard. C-64 and Atari XL versions \$39.95 US.

Publisher: Format:

Price:

Infocom Disk \$44.95 (US) Ingram

Availability: Spellbreaker

Journey through magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$44.95 US.

Publisher: Format: Availability:

Price:

Infocom Disk \$49.95 (US) Ingram

Starcross

In the year 2186 you must pilot your starship, rendezvous with a gargantuan ship from another galaxy, and solve incredible alien puzzles. Pure text. Atari XL and C-64 versions \$44.95 US.

Publisher: Format:

Price:

Infocom Disk \$49.95 (US) Ingram

Availability:

Software

Murder mystery adventure. Pure text. C-64 and Atari XL

versions \$39.95.

Publisher: Infocom Format: Disk \$44.95 (US) Price: Availability: Ingram

Suspended

Unique combination of text adventure, board game, and simulation. You brain is connected to the Underground Complex. Using only your six peripheral robots you must minimize casualties by properly administering life support

Publisher: Format:

Infocom Disk Price: \$49.95 (US) Availability: Ingram

Sword of Kadash

Control your character in real time as you explore a dragon's castle to find the magical Sword of Kadash. Each of over 200 screens has its own puzzles, secret doors, creatures, and tricks. Use weapons, shields, spells.

Publisher:

Penguin/Polarware

Format: \$17.95 (US) Price: Availability: Ingram

Popular graphics adventure has player fending off werewolves, vampires while in search of endangered Princess Sabrina. Available in double Hi-Res for Apple //e. IBM, ST, Macintosh version \$19.95 US. Amiga \$29.95

Publisher:

Penguin/Polarware

Format: Price:

Disk \$17.95 (US)

Availability:

Ingram

Journey through a magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom

Format:

Disk \$39.95 (US)

Price: Availability:

Ingram

In the pulp detective world of the thirties a case of blackmail turns to murder. You have 12 hours to untangle a web of clues, motives and alibis, supported by police file of physical evidence. Pure text. C-64 and Atari XL versions

Publisher: Format:

Infocom

Price: Availability:

Disk \$39.95 (US) Ingram, Radio Shack

Zork I: The Great Underground Empire

Armed with sword and lantern you venture down into the lost subterranean kingdom of Frobozz. Slay troll, solve puzzles, find treasures, evade the villanous thief. Pure text. Two sequels. TRS-80 version \$19.95. Atari XL and

C-64 \$34.95 US.

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability:

Ingram, Radio Shack

Zork II: The Wizard of Frobozz

Discover a previously hidden section of the Underground Empire. Meet the Wizard, solve puzzles. Sequel to Zork I, but can be played on its own. Pure text. C-64 and Atari XL versions \$39.95 US.

Format:

Infocom Disk

\$44.95 (US) Price: Availability: Ingram

Zork III: The Dungeon Master

Culmination of the Zork trilogy. You encounter the Dungeon Master himself, and your destiny hangs in the balance. Pure text. Atari XL and C-64 versions \$39.95

Publisher: Format:

Infocom Disk

\$44.95 (US) Price: Availability: Ingram

> **ROLE-PLAYING** GAMES

Alter Ego

Lets you experiment with 'what-if', presents hundreds of life situations, tracks your development through 7 life stages from infancy through the golden years. Become an executive, a rock star, a bum, etc. Male and female versions

Publisher: Format:

Activision Disk

\$49.95 (US) Price: Availability: Ingram

Gemstone Warrior

The Gemstone, source of all good, has been stolen by inhabitants of the Netherworld and split into 5 parts. Fight through labyrinths, return the stone to the temple altar, Realtime action, graphics, weapons, magic. Introductory level

Publisher:

Strategic Simulations

Format: Price:

Disk \$34.95 (US)

Availability:

Ingram

Omnitrend's Universe II

Travel among 47 detailed planets, battle intelligent enemy ships, maintain complex crew characters and ships systems. Uses text parser for planetside interactions; graphics for space battles. Pull down menus, etc simplify use. Omnitrend

Publisher: Format:

Disk \$105.00

Price: Availability:

Phantasie

Command up to 6 characters as they search a magic world for the Nine Rings. Introductory level of difficulty. ST version scheduled for April.

Publisher: Format:

Price:

Strategic Simulations Disk \$39.95 (US)

Availability:

Ingram

Classic second chapter in the Ultima series pits you against Mondain's apprentice, Minax. Travel across scrolling display of earth in seven different time periods, and finally explore strange planets in space. ST version \$79.95 Cana-

Publisher:

Format:

\$29.95 (US)

Price: Availability:

Ingram,

Ultima III

Third in the splendid Ultima series of role playing adventures. This edition has all the features of Ultima II, but allows a party of up to four adventurers to journey together. Each character has distinct attributes. C-64, Atari \$49.95.

Publisher: Format: Price:

Origin Systems Disk \$59.95 (US)

Availability: Ingram

Sixteen times larger than Ultima III. Enter Brittania, kingdom of Lord British. Journey through infinite terrain, converse with characters on hundreds of topics, unravel the mysteries of a superior magic system. Beware of demons, dragons.

Publisher: Format:

Origin Systems

Price:

\$60.00 (US)

Wizardry — Proving Grounds

Highly-acclaimed role-playing game. Player(s) lead party of adventurers into "The Proving Grounds of the Mad Overlord". Graphics, text display shows ten-level maze, monsters, treasures. Apple II version \$49.95 US. Available in French.

Publisher:

Format:

Sir-Tech Disk \$59.95 (US)

Price: Availability:

Ingram

Xyphus

Six scenarios linked into a larger game, including variety of spells, weapons and creatures as you draw closer to a showdown with Xyphus, the Demon Lord. Allows team action, or each of four players acting alone. Macintosh \$19.95 US.

Publisher:

Availability:

Penguin/Polarware

Format: Price:

Disk \$17.95 (US) Ingram

SIMULATION GAMES

Ancient Art of War, The

Accurate, detailed simulation of military strategy and tactics through the ages. Plan camplaigns, choose troops, direct battles, zoom in to engage in close-up animated conflict. Game generator included. Apple II version \$39 95 US

Publisher: Format:

Broderbund Disk

Price: Availability: \$44.95 (US) Beamscope, Ingram

Software

Archon

Unique variant on traditional chess, with odd creatures occupying squares that range through various shades rather than just black and white. Role-playing type conflict settles attacks of one piece on another. Graphic display of the

Publisher:

Electronic Arts

Format: Disk Price:

\$49 95

Availability: Beamscope, Ingram

Balance of Power

Strategic political simulation. You play the part of either the Russians or the US, keep track of press reports, send arms to rebels, send financial aid to friendly powers, try to gain prestige while avoiding nuclear confrontation.

Publisher:

Mindscape Disk

Format: Price:

\$49.95 (US)

Availability: Ingram

Speculate in real estate, keep an eye on mortgage rates national and international events, etc. Start with \$35,000 and try to parlay it into a million in 52 game-weeks. C-64 version \$29.95 US, Apple II version \$49.95 US.

Publisher:

Blue Chip

Format: Disk \$59.95 (US) Price:

Availability:

Ingram

Bridge 4.0

Popular simulation of the card game. ST version uses full graphics and mouse, works with both color and monochrome display.

Publisher:

Artworx Disk

Format: \$29.95 (US) Price:

Availability:

Ingram

Computer Baseball

Create and manage any team you like in strategy simulation of the popular sport. Teams Data disks with Statistics Compiler available for 1980 through 1984, \$15 each (not all years for all systems).

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability: Ingram

Felony!

Successor to Murder by the Dozen, uses similar format. Up to four players or teams try to solve a dozen felony cases ranging from kidnapping to murder. Interrogate suspects, search locations, etc. Clues Notebook contains 700

Publisher:

CBS Software Disk

Format: Price:

\$24.95 (US)

Availability:

Ingram

Four games. Four-in-a-Row, Klondike Solitaire, Sevens, and King Albert Solitaire. Uses mouse, graphics, etc. In compiled Pascal

Publisher:

Videx Disk

Format: \$39.00 (US) Price:

Availability: Ingram

GATO

WW II submarine simulation. Cruise the south seas, try to fulfill various missions, sinking Japanese ships along the way. Shows periscope/instrument display, radar, map views, damage reports, etc. C-64 version \$29.95. Mac version \$49.95 US.

Spectrum Holobyte Publisher:

Format:

Disk \$39.95 (US)

Availability: Ingram

Harrier Strike Mission

Detailed 3-D aerial combat simulator. Publisher: Miles Computing

Format:

Disk \$49.95 (US)

Price: Availability:

Ingram

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Software

MacCheckers with Reversi

Two traditional board games. MacCheckers features a variety of playing levels, strategies to accomodate beginners and advanced players. Reversi is the checker-board capture game popularized recently under the tradename Othello.

Publisher: Videx Format: Disk \$49.00 (US) Price: Availability:

MacGammon with Cribbage

Two old favorites rendered for Macintosh graphics, mouse. MacGammon offers variety of play levels. Cribbage permits play against either the computer or a human opponent. Package includes Goren's Modern Backgammon Complete book

Ingram

Videx **Publisher:** Format: Disk \$49.00 (US) Price: Availability: Ingram

Detailed simulation, shows animated golfer, 3-D perspective and plan views of fairway, sound. Includes 2 18-hole courses, more available separately. Up to 4 can play. Allows multiple clubs and stances, etc. Needs Fat Mac.

Publisher: Practical Computer Applications Format: Disk \$59 95 (US) Price:

MacManager

Text/graphics financial simulation for one to nine players. Go to your factory and look at production, examine warehouse inventory, read MacTimes to check out your competition. Make decisions and see the results. French version \$129.95

Publisher: Harvard Associates Format: Disk \$49.95 (US) Price:

MacVegas

Seven casino games. Includes Poker, Craps, Keno, Blackjack, Baccarat, Roulette, and Slots. By moving to different casinos the game rules, payoffs, table limits can be changed.

Publisher: Videx Format: Disk \$59.00 (US) Price: Availability: Ingram

Millionaire

Enter the New York Stock Exchange as a Novice with \$10,000, a range of 15 actual stocks from 5 industry categories as investment possibilities. Buy and sell based on news reports, manage your Portfolio. C-64 version \$29.95, Apple \$49.95 US

Publisher: Blue Chip Format: Disk \$59.95 (US) Ingram, Radio Shack Availability:

Mystery Master: Murder by the Dozen

Starting with a map of Micropolis, sleuths must unravel a trail of concealed clues, false leads, clever deceptions. Numbered clues are detailed in accompanying Clue Book. Up to 4 players. Twelve cases, 700 clues.

Publisher: CBS Software Format: Disk \$24.95 (US) Availability: Ingram

Orbiter

Simulates a flight aboard the Space Shuttle, includes 16 different missions such as deploying a space telescope, retrieveing a satellite, docking with a space station, etc. Fly manually or let onboard computer handle most of the

Publisher: Spectrum Holobyte Format: Disk \$49.95 (US) Price: Availability: Ingram

Perplexx

Computerized rendition of board game 'Scrabble'. Allows choice of playing level, board size, number of letters in your rack, positions of bonus squares. Includes 95,000 word dictionary

Publisher: Hayden Format: Disk \$39.95 (US) Price: Availability: Ingram

Racter

Simulated human being with 2800-word vocabulary discusses philosophy, answers questions. Amiga version uses voice to speak aloud

Publisher: Mindscape Format: Disk \$49.95 Price: Availability: Beamscope, Ingram

Run For the Money

A business game with a space-age theme. Macintosh version \$49.95 US.

Publisher: Scarborough Systems Format: Disk \$19.95 (US) Price. Availability: Ingram

Sargon III

One of the most powerful chess programs for microcomputers, an update of Sargon II. New version plays faster, offers many options such as board set up, retraction of moves, game save, etc. Includes library of famous chess

Publisher: Hayden Format: Disk \$49.95 (US) Price: Availability: Ingram

Silent Service

Graphic simulation of submarine service. Attack enemy convoys, avoid patrol boats. Choose your own patrol sectors, attack submerged or on the surface, day or night.

Publisher: MicroProse Format: Disk Price: \$34.95 (US) Availability: Ingram

Sanire

Start at age 20, try to retire a millionaire at 40. Invest in stocks, bonds, real estate, commodities, etc. Explore investment strategies, discover which avenues hold the greatest promise for you. Apple II version \$49.95 US.

Publisher: Blue Chip Format: Disk \$59.95 (US) Price: Availability: Ingram

Tellstar

Personal planetarium system, provides a graphic guide to the constellations, planets, sun, moon, start, Halley's Comet, etc. Shows sky quadrants and position of object for given time, date, etc. Performs astronomical calculations.

Publisher: Spectrum Holobyte Format: Disk \$49 95 (US) Price: Availability: Ingram

Tycoon

Devise flexible strategies, anticipate events, trade in gold, silver, copper, oil, treasury bills, foreign currencies, agricultural commodities. Work from charts, background data. C-64 version \$29.95 US. Apple II version \$49.95

Publisher: Blue Chip Format: Disk \$59.95 (US) Price: Availability: Ingram

Word Challenge II

Similar to 'Boggle', pits human against computerized opponent LEXX, trying to make as many words as possible from random letters. Includes 26 levels of play, 3 board sizes, 5 scoring options, 95,000 word dictionary. Mac version \$39.95 US.

Publisher: Hayden Format: Disk \$19.95 (US) Price: Availability: Ingram

TECHNICAL PROGRAMMING LANGUAGES

Aztec C68K-C, C68K-P, C68K Tools

Complete C compiler for Macintosh, includes 68000 macro assembler, utilites, etc, compatible with LISA Macworks, 512K Mac. No royalties. Personal system \$199. Tool kit including make, grep, diff, Z editor \$249. Cross compilers available

Publisher: Manx Software Systems Format:

Price: \$499.00 (US)

MacForth Level 2

Complete professional software development system. Provides complete Toolbox ROM support. Standalone applications require Level 3, \$250 US extra.

Publisher: Creative Solutions Format: Disk Price: \$249.00 (US)

Macintosh Pascal

Full ANSI Standard Pascal interpreter. Includes text editor similar to MacWrite, with syntax checking, automatic pretty print. Up to 6 windows for source, text, graphics, data, etc. Stop, step and trace. Gives access to Quick-Draw, etc.

Publisher: Apple Format: Disk \$190.00 Price: Availability: Apple Canada

Software

Microsoft BASIC Interpreter

The most widely-accepted BASIC language package. Uses english-like commands; provides a friendly programming environment.

Publisher: Format: Price:

Microsoft Disk \$150.00 (US)

Availability: Ingram

Microsoft FORTRAN Compiler

A subset of the complete FORTRAN-77 language. Includes meta-commands to enhance structuring, setting source formats, etc. Offers 8087 support. Links with assembly language or Microsoft Pascal modules. Mac ver-

Publisher: Format: Price:

Microsoft Disk \$449.95

Availability:

Ingram, Radio Shack

PortaAPL

Full implementation of APL language, also includes access to Quickdraw graphics, terminal emulator, full-screen editor, etc.

Publisher:

Portable Software

Format: \$275.00 (US)

Price:

TDI Modula-2

Complete 68000 development language, includes standard Wirth Modula plus machine-specific libraries. Creates native 32-bit code. Includes full screen editor with errorfinding capability.

Publisher: Format:

Disk (2) \$119.95 STari

Price: Availability:

TDI Pascal

Complete UCSD Pascal implementation. Includes UCSD screen editor, filer and other utilities. UCSD Tool Kit and assembler \$119.95. Other UCSD packages also available.

Publisher: Format: Price:

TDI Disk (2) \$119.95 STari

Availability:

TML Pascal

Creates standalone applications, supports access to Toobox, Quickdraw, operating system, I/O, HFS, SANE floating point, AppleTalk network, etc. Also allows compile to assembly source code or object files. Linker/Librarian \$59.95 US.

Publisher:

TML Systems Disk Format: \$99.95 (US) Price:

True BASIC

Upgraded BASIC interpreter from the authors of the original BASIC, following proposed ANSI standard. Includes features such as SELECT CASE, nested IF-THEN-ELSE-IF and DO-LOOP structures, matrix algebra, graphics, windows, editor, etc.

Publisher:

Format:

True BASIC Disk \$149.90 (US)

Price: Availability:

Ingram

True BASIC Programming Libraries

Modules include Developer's Toolkit, PC BASIC Converter, Communications Support, Forms Management, Btrieve Interface, Hercules Graphics support, Sorting & Searching, String operations, 3-D graphics. Price is per

library

Publisher: True BASIC Disk Format: \$49.95 (US) Price:

Availability:

True BASIC Runtime Library

Contains everything needed to distribute software developed using the True BASIC Language System. Includes unlimited sales and distribution license.

Ingram

Publisher:

True BASIC

Disk Format: \$500.00 (US) Price:

Availability: Ingram

UCSD Pascal

Complete implementation of standard Pascal language. Includes text editor, on-line tutorial, 8087 coprocessor support, BCD support, etc

Pecan Software Systems Inc Publisher:

Disk

Format:

\$79.95 (US) Price:

Enhanced BASIC compiler, creates standalone applications. Includes features such as advanced math package, graphics support, etc. Mac version has windowing, mouse handling, type font support, Toolbox access, etc. Includes editor, help.

Publisher: Format: Price:

Zedcor Disk \$89.95 (US)

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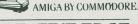
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APPLE II

SECTION



SYSTEMS

Apple IIc

Manufacturer: Apple Operating System: DOS 3.3, ProDOS

65C02 Processor: Standard RAM: 128 Maximum RAM: 128

I/O Ports: serial Disk Drives: 1x137K Text Display: Hi-res Graphics: 80x24 560x192 560x 192

Color Graphics: Color palette: Sound:

16 of 16 yes

Apple Canada **Available From:** \$1485.00 Price:

Built-in floppy drive, 2 serial ports for modem and printer, mouse port, joystick port, headphone jack, second drive port, Applesoft BASIC. External power supply, RF modulator. French version also available. With monochrome monitor, \$1625.

Apple IIe

Manufacturer: Apple

Operating System: DOS 3.3, ProDOS

Processor: 6502 Standard RAM: 128 Maximum RAM: Disk Drives: 1x137K Text Display: 80x24 hi-res Graphics: 560x192 **Color Graphics:** 560x192 Color palette: 16 of 16 Sound:

Available From: Apple Canada \$1995.00 Price:

Includes UniDisk floppy drive and controller, 80-column display card, monchrome Monitor II, cables, ProDOS operating system. Apple IIe Professional System includes DuoDisk double floppy subsystem, \$2395. Also available in bilingual version.

Franklin Ace 2000

Manufacturer: Franklin Computer Operating System: DOS 3.3, ProDOS

65C02 Processor: Standard RAM: 128 Maximum RAM: 512 parallel 80x24 I/O Ports: Text Display: hi-res Graphics: 560x192 Color Graphics: 560x192 Color palette: Sound: 16 of 16

\$795.00 (US) Price:

Includes monochrome monitor and detached keyboard with enhanced layout. Resembles IBM PC configuration. Ace 2100 with 1 floppy drive, \$895 US. Ace 2200 with 2 floppy drives, \$995 US.

Hardware

Laser 128

Manufacturer: Video Technology Operating System: DOS 3.3, ProDOS

Processor: 6502 Standard RAM: 128 Maximum RAM: 128 Disk Drives: 1x143K Text Display: 80x24 Sound:

Available From: ABaC Electronic Enterp

Price: \$789 95

Apple // compatible. Monitor not included. FPBASIC

built in, also runs CP/M.

EXPANSION

ACC 80 Card

Function: display adapter Manufacturer: Artronics Available From: Gentek Price: \$79.00

Extended 80-column display card for Apple //e. Includes 64K of RAM. Provides 80 column by 24 line display, extends main memory to 128K, allows double-high resolution graphics, etc. Totally Apple compatible.

API Card

Function: I/O port Manufacturer: Artronics Available From: Gentek Price: \$69.00

Parallel printer interface with built-in graphics driver for Epson, NEC, C Itoh, Okidata, Star and Mannesman Tally. Screen dumps of page 1 or 2, 40/80 column text dumps, adjustable margins, rotate, double-size, etc. Includes ca-

Apple Extended 80-Column Card

Function: display adapter Manufacturer: Apple Available From: Apple Canada \$225.00 Price:

Adds 80-column display, Double High-Res graphics, plus 64K of bank-switched RAM to Apple IIe. Includes software supplement with example programs.

Apple II Super Serial Card

Function: I/O port Manufacturer: Apple Apple Canada Available From: \$220.00 Price:

Adds RS-232-C interface to Apple IIe. Supports baud rates up to 19,200.

Apple Memory Expansion Card

Function: memory expansion Manufacturer: Apple

Available From: Apple Canada Price: \$450.00

Adds 256K of RAM to Apple IIe, for use as RAMdisk. Expansion Kit available, adds another 256K to the card, \$105. Card accepts up to 3 Kits, for total of 1M RAM.

Chroma Music System Interface Kit

Function: I/O port Manufacturer: Fender Musical Instruments

Price: \$735 00

Interface kit to be used with any Chroma products

Genesys I Digital Synthesizer Board

Function: I/O port Manufacturer: Mimetics \$1465.00 Price:

A powerful 16-oscillator sound synthesis system. Compatible with Classic/Alpha-Syntauri keyboards and Proxima software

MIDI Pro

Function: I/O port Manufacturer: Passport Designs Price: \$299.95 (US)

MIDI interface for Apple IIc. Includes MIDI in/out, clock in/out and tape sync in/out. Optional Toolkit software \$25

US

MIDI Pro Interface

Function: I/O port Passport Designs Manufacturer: Available From: Remenvi Price: \$299.95 (US)

For Apple //c only. Incorporates full sync capabilities including MIDI In/Out, Clock In/Out, Tape Sync In/Out. Software based, allows upgrades and full system expansion. Supported by full line of Passport software for the //c.

MPU-401 Processor and Interface

Function: I/O port Roland Canada Manufacturer: \$480.00 Price:

Intelligent MIDI processing unit with tape sync and pluse code interfaces. Includes either MIF-IPC or MIF-APL interface card.

MegaRam

Function: memory expansion Manufacturer: AST Research Available From: McKenzie Brown Canada

\$325.00

Memory expansion for Apple //e, replaces extended 80column display card. Software includes disk cache, AppleWorks expander, RAMdisk for ProDOS and DOS 3.3, RAM diagnostics. RGB interface optional. Price shown is for 64K. With 1M RAM, \$995

MultiRam CX

Function: memory expansion Manufacturer: Checkmate Technology \$199.95 (US)

Fits inside Apple IIc, adds 256K or 512K RAM. Loads AppleWorks into RAM, creates RAMdisk, saves large files to multiple floppy disks. Price shown is for 256K. For 512K, \$259.95 US

MultiRam RGB

Function: multifunction Manufacturer: Checkmate Technology \$199.95 (US) Price:

Adds up to 1M RAM to IIe, up to 4M with duaghter card. Features SRAM port, connects up to 2M of battery-backed static RAM. Provides 80-column. RGB video connector standard. Includes AppleWorks expansion software, RAMdisk. Price is for 64K

Multicore

Function: multifunction Manufacturer: Quadram Available From: Chevco \$355.00 Price:

Combines RAM expansion up to 256K, parallel printer port, serial port, ProDOS clock/calendar. Includes ROM software for RAMdisk emulation. Price shown is for 0K. With 128K RAM, \$545, With 256K RAM, \$655

Pitchrider 4000

Function: I/O port Manufacturer: IVI. Price: \$495.00

A pitch-recognition device, uses visual and audible display to help improve intonation. Generates MIDI data so that any instrument can drive a MIDI synthesizer or any MIDI software. Requires Pitchrider software, \$125 extra.

Pitchrider 7000

Function: I/O port Manufacturer IVL Price: \$849.00

A guitar-to-MIDI interface. Allows use of guitar to play

any MIDI synthesizer.

Quadram Buffered Serial Adapter

Function: I/O port Manufacturer: Quadram Available From: Chevco Price: \$225.00

Serial printer interface, supports high-res graphics for Apple ImageWriter and Scribe printers. Price shown is for 64K. With 128K, \$325. With \$256K, \$425.

Quadram Extended Multifunction

Function: display adapter Manufacturer: Quadram Available From: Chevco \$395.00 Price:

Enhanced 80-column expansion card for Apple IIe. Includes 64K of RAM, ProDOS clock/calendar. With RGB

output, \$475. RGB upgrade \$99

Quadram ProDOS Clock/Calendar

Function: (special) Manufacturer: Quadram Available From: Chevco \$135.00 Price:

Battery-based perpetual clock/calendar for use with Pro-DOS time/date functions

Quadram Serial Interface

Function: I/O port Manufacturer: Quadram Available From: Chevco Price: \$175.00

Serial printer or communications interface. Supports graphics for Apple ImageWriter or Scribe printers, Apple

Super Serial Card compatible.

Hardware

RamFactor

Function: memory expansion Applied Engineering Manufacturer: \$239.00 (US) Price:

Memory expansion, fits Apple II+ slots 1 through 7, Apple IIe. Compatible with AppleWorks, ProDOS, etc. Built-in RamDrive software. Price shown is for 256K. WIth 1M, \$389 US. Up to 16M with piggyback card.

RamWorks II

Function: memory expansion Manufacturer: Applied Engineering Price: \$179.00 (US)

Can load AppleWorks entirely into RAM. Plugs into IIe auxilliary slot, includes extended 80-column display. Expandable to 1M onboard, up to 16M with piggyback. Price shown is for 64K. With 1M \$369 US. RGB daughter card

Softcard

Function: auxilliary processor Manufacturer: Microsoft

Available From: Ingram \$425.00 (US) Price:

Allows Apple II or IIe to run CP/M software. Includes Z-80 processor, etc.

SprintDisk

Function: memory expansion Manufacturer: AST Research Available From: McKenzie Brown Canada

\$475.00

Compatible with Apple Memory Expansion Card. Up to 1M on board, or 2M with optional piggyback card. Up to two 400K RAMdisks under DOS 3.3. Includes SprintCache software for caching up to 14 devices. Price shown is for 256K. With 1M, \$995.

TimeMaster HO

Function: (special)

Manufacturer: Applied Engineering \$129.00 (US) Price:

ProDOS, DOS 3.3, Pascal, CP/M, AppleWorks compatible clock card. Includes 2 disks of sample programs. BSR remote control option allows control of up to 16 lights and appliances, \$49 US extra

TransWarp

Function: auxilliary processor Manufacturer: Applied Engineering Price: \$279 00 (US)

Runs all apple software up to 3.6 times faster. Uses 3.6 Mhz 65C02, 256K of fast onboard RAM. Fits any slot on II + or IIe. Sixteen-bit upgrade available, \$89 US

Viewmaster 80

Function: display adapter Manufacturer: Applied Engineering Price: \$139.00 (US)

Eighty-column display card, works with II + or IIe, DOS 3.3, ProDOS, CP/M, etc. Shows upper and lower case 7x9 matrix characters with true descenders, inverse, user-definable cursor.

Z-80 Plus

Function: auxilliary processor Manufacturer: Applied Engineering \$139.00 (US) Price:

Z-80 CP/M card, includes CP/M 4.0 software. Features built-in disk emulation for popular memory expansion boards, menu-driven utilities, accesses up to 128K on extended 80-column card, up to 1088K with RamWorks.

Z-80c

Function: auxilliary processor Manufacturer: Applied Engineering \$159.00 (US) Price:

Internal Z-80 card for Apple IIc, runs CP/M. User-installa-

Z-RAM

Function: multifunction Manufacturer: Applied Engineering Price: \$399.00 (US)

Internal RAM expansion for Apple IIc. Loads AppleWorks into RAM, provides RAMdisk, print spooler, segments large files for multi-disk save. Includes Z-80, runs CP/M. Price is for 256K. With 512K, \$479 US.

STORAGE DEVICES

Dataspace AAA3

Manufacturer: Dataspace Type: floppy, external 163 kilobyte Capacity: Available From: Gentek \$185.00

Slim line, pop-up disk eject mechanism. Available for Apple II model. One-year warranty.

Dataspace DD-3

Manufacturer: Dataspace Type: floppy, external Capacity: 163 kilobyte **Available From:** Gentek \$397.00

Dual-drive expansion unit designed to sit under monitor, on top of Apple II case. Works with any existing control-

Duodisk Floppy Disk Subsystem

Manufacturer: Apple Type: floppy, external Capacity: 137 kilobyte Available From: Apple Canada \$940.00 Price:

Single boxed unit containing two Apple II floppy drives, 137K capacity each. Price includes controller card and ProDOS.

MicroStor 10

Manufacturer: **AST Research** Type: hard, external Capacity: 10 megabyte

Available From: McKenzie Brown Canada

\$2195.00

Includes 10M tape drive and cartridge, host adapter card, cables, two disks of ProDos, DOS 3.3 and CP/M utilities, Backup II utility, disk and tape format utilities. Complete backup in 24 minutes, plus optional 6 minute verification pass.

MicroStor 20

Manufacturer: AST Research Type: hard, external Capacity: 20 megabyte

Available From: McKenzie Brown Canada

Price: \$2795.00

Includes 20M tape backup, cables, adapter card, two diskettes of utilities. Software covers ProDos, DOS 3.3 and CP/M, with Backup II mirror-image program, disk and tape format utilities

ProFile

Manufacturer: Apple Type: hard, external Capacity: 10 megabyte **Available From:** Apple Canada \$2155.00 Price:

Standard Winchester drive for Apple II family, compatible with DOS 3.3, ProDOS and Apple III SOS. Average seek time 85 msec. Requires accessory kit, including interface card, cable, software, etc: \$275.

Quark QC-10

Manufacturer: Quark Type: hard, external Capacity: 10 megabyte

Available From: McKenzie Brown Canada

Price: \$1995.00

Average 99 msec access time. Can be divided into over 60 volumes, with password protection. Can have Mac, Pro-DOS, etc simultaneously in different volumes.

Quark QC-20

Manufacturer: Ouark hard, external Type: 20 megabyte Capacity:

Available From: McKenzie Brown Canada

\$2695.00 Price:

Average 85 msec access time. Allows multiple volumes, with password protection. Can run Macintosh, ProDOS, etc in different volumes.

UniDisk 3.5

Manufacturer: Apple floppy, external Type: Capacity: 800 kilobyte **Available From:** Apple Canada \$690.00 Price:

Microfloppy add-on drive for Apple II series. Plugs into Apple IIc, requires UniDisk Accessory Kit interface for Apple IIe, \$105 extra. Second drive can be daisy chained. Up to 50% faster than standard Apple II drive.

UniDisk Floppy-Disk Subsystem

Manufacturer: Apple Type: floppy, external Capacity: 137 kilobyte

Available From: Apple Canada \$450.00 Price:

Standard floppy drive for Apple IIe. Price shown is for second expansion drive. First drive with controller and ProDOS, \$575.

MISCELLANEOUS

Apple Enhancement Kit

Manufacturer: Apple
Function: ROM Upgrade
Available From: Apple Canada

Price:

Includes 4 replacement ROMs and 65C02 processor chip for Apple IIe. Increases compatibility with Apple IIc, improves programming capabilities.

Apple Hand Controllers II

Manufacturer: Apple
Function: Controller
Available From: Apple Canada
Price: \$60.00
Set of paddle controls for Apple II.

Apple IIc System Clock

Manufacturer: Applied Engineering
Function: Realtime Clock
Price: \$79.00 (US)

Outboard module plugs into Apple IIc modem or serial printer port, displays time and date on AppleWorks screen, automatically time/date stamps all work.

Apple Joystick II

Manufacturer: Apple
Function: Controller
Available From: Apple Canada
Price: \$95.00

Joystick for Apple II, features proportional control, 2 buttons.

Apple Mouse IIe

Manufacturer: Apple
Function: Controller
Available From: Apple Canada
Price: \$225.00

Mouse controller for use with Apple II family. Includes mouse, interface card, MousePaint software. French-language package available.

Apple Numeric Keypad

Manufacturer: Apple
Function: Keyboard
Available From: Apple Canada
Price: \$165.00

Extension keypad for Apple II, provides number keys for fast numeric entry.

Chroma Polaris

Manufacturer: Fender Musical Instruments
Function: Music Synthesizer
Price: \$2995.00

Polyphonic synthesizer featuring hybrid analog/digital design. Multi-timbral, allows programmable keyboard splitting, voice linking, polyphonic sequencing.

Granny Smith Connection

Manufacturer: Zap Technologies
Function: Printer Interface
Available From: Select Marketing
Price: \$149.95

Connects to serial port on Apple IIc or Macintosh, provides Centronix-type port for printer.

Ideal Expand Port

Manufacturer: Ideal
Function: Joystick Expansion
Available From: Gentek
Price: \$19.90

Plugs into internal joystick port on Apple II, provides 5 switch-selectable external sockets for multi-player games or different types of controllers.

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Hardware

Ideal MS-808

Manufacturer: Ideal **Function:** Joystick Available From: Gentek Price: \$29.95

Features fire button on shaft, dual buttons on base, selectable spring-centered or free-floating operation. Switchconfigurable for either Apple II or IBM. One-year war-

Koala Pad

Manufacturer: Koala

Graphic Controller **Function:** Available From: Ingram \$125.00 (US) Price:

Handy lap-sized graphics tablet. Includes Micro-Illustrator paint program. IBM version \$150 US.

Kraft Joystick

Manufacturer: Kraft **Function:** Controller Available From: Ingram \$32.95 (US) Price:

Two-button, proportional-control joystick. IBM version

\$39.95 US.

Kraft QuickStick

Manufacturer: Kraft Systems **Function:** Controller Available From: Price: \$69.95 (US)

Switch-selectable joystick and mouse modes. Price shown is for 2-button model. Three-button model \$79.95 US.

MicronEye Bullet, Camera Micron Technology Manufacturer: Digital Camera **Function:** \$295.00 Price:

Uses lens to input digitized graphics, via interface card. Interfaces to Applesoft BASIC, Apple Pascal, C-64, TRS-80 CoCo or PC compatibles. Bullet Plus version has longer reach, \$395. Camera is boxed complete, with long cord. \$485.

Mirage Digital Sampling Keyboard

Manufacturer: Ensoniq Music Keyboard **Function:** \$2795.00 Price:

Features on-board sequencer, multi-overdub capability, can play or record from external MIDI equipment. Requires Apple IIe with 80-column card, Passport-compatible MIDI card, 2 MIDI interconnect cables. Rack-mount version, \$2395.

Softstrip System

Manufacturer: Cauzin Systems Strip Code Writer/Reader **Function:**

Price: \$199.95 (US)

Allows user to write or read special dot-coded bars, for storage of any data or program file. System includes Softstrip reader unit and connectors, plus software to drive dot matrix printer for outputting strips.

System Saver

Manufacturer: Kensington Microware **Function:** Surge Suppressor/Fan Gentek, Ingram Available From: \$34.50 Price:

Includes surge suppressor, cooling fan, two power switched power outlets and lit on/off switch. Fits on side of

Apple II housing.

Videx Time Wand

PRINTERS

Apple Scribe

Manufacturer: Apple

dot matrix, color Type: **Print Speed:** 80 cps draft, NLQ **Print Modes:**

Graphics: Interface: serial Apple Canada Available From:

Price: \$395.00

Non-impact matrix, prints 7 colors, near-letter quality at 50 cps, graphics at up to 1280 dots per line. Connects to RS-232-C, includes Accessory Kit for Apple II, IIe or IIc.

Epson AP-80

Manufacturer: Epson Type: dot matrix Print Speed: 75 cps Print Modes: draft, NLQ Graphics:

Download Fonts: yes Interface: parallel

Available From: Epson Canada Price: \$619.00

Prints near-letter quality at 15 cps, includes friction and tractor feed. Emulates Apple ImageWriter.

ImageWriter II

Manufacturer:

dot matrix, color Type: **Print Speed:** 250 cps draft, NLQ

Print Modes: Graphics: Download Fonts: yes **Cut Sheet Feed:** Interface: serial

Available From: Apple Canada Price: \$1125.00

Color ribbon prints 7 colors. Near-letter quality at 45 cps. Price includes Accessory Kit for Apple II or Macintosh. Apple IIe requires serial card. Sheet feeder \$345. AppleTalk Network interface \$215. Ten-inch carriage version, \$1045.

LaserWriter

Manufacturer: Apple Type: **Print Speed:** 8 ppm **Print Modes:** letter **Graphics:** ves **Download Fonts:** yes Cut Sheet Feed: yes Interface: serial Available From: Apple Canada

\$9495.00 Based on Canon LBP-CX engine, prints 300x300 dots per inch, uses letter, legal, A4, B5 paper sizes. Programs in PostScript, or subset of Diablo 630. Many extra fonts. Includes 500K ROM, 1.5M RAM. Upgrade to Laser-

Writer Plus, 1M ROM, \$1310.



Hardware

Mannesman Tally MT 85

Manufacturer: Mannesman Tally Type: dot matrix

Print Speed: 180 cps **Print Modes:** draft, NLO **Graphics:** yes **Download Fonts:** yes

Interface: serial, parallel **Available From:** Sak Data Products

Price: \$890.00

Prints near-letter quality at 45 cps, graphics at up to 240 dots per inch. Interface modules allow IBM, Epson FX and Apple Imagewriter emulation. Plug-in font cartridges.

Mannesman Tally MT 86

Manufacturer: Mannesman Tally Type: dot matrix

Print Speed: 180 cps Print Modes: draft, NLQ **Graphics:** ves

Download Fonts: yes Interface: serial, parallel Available From: Sak Data Products

Price: \$1050.00

Wide-carriage version of MT 85. Prints near-letter quality at 45 cps, graphics at up to 240 dots per inch. Interface modules allow IBM, Epson FX and Apple Imagewriter emulation. Plug-in font cartridges.

MODEMNS

GVC Super Modem 300 Manufacturer: GVC

Maximum Rate: 300 baud Auto Answer: ves **Auto Dial:** ves Direct Connect: yes Interface: internal

Compatibility: Hayes Available From: Gentek Price: \$149.00

Designed for Apple II series.

Micromodem IIe

Price:

Manufacturer: Haves **Maximum Rate:** 300 baud Auto Answer: yes **Auto Dial:** ves

Direct Connect: ves Interface: internal Compatibility: Hayes

Available From: Compuserve \$335.00

Plugs into Apple slot. Uses Hayes Smartcom I software

Multiflex Apple Compatible Modem

Manufacturer: Multiflex Maximum Rate: 300 baud **Auto Answer:** ves

Auto Dial: yes Direct Connect: ves Interface: internal Compatibility: Hayes

Available From: Exceltronix Price: \$159.00

> More modems in Modems Section. Monitors: See Monitors Section.

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☐ American Express Account No. _

Expiry Date _

Signature

Software

UTILITIES DESKTOP MANAGERS

Works with AppleWorks on IIe or IIc. Provides 5 tools: appointment calendar, phonedialer with directory, 4 function calculator, memo pad, and alarm clock with time and date stamping. Requires Apple Mouse, ThunderClock or PBI interrupt card.

Publisher: Format:

PBI Software

\$49.95 (US) Price:

MouseDesk

Windowing interface shell for Apple II, emulates Macintosh interface with pull-down menus, mouse support, etc.

Publisher: Format:

Apple Disk

Price: Availability: \$60.00 Apple Canada

Pinpoint Desk Accessories

Eight applications: address in envelope, call a friend, schedule an appointment, search online databases, send or receive electronic mail, merge pictures and text, jot down notes, calculate numbers, or pop-up an electronic typewriter.

Publisher:

Pinpoint Publishing

Format: Price:

Disk \$69.00 (US)

Availability: Ingram

MISCELLANEOUS

Catalyst II 3.0

Macintosh Finder-like menu utility for use with ProDOS, uses pop-up windows, pulldown menus, etc. Supports hard disks, mouse. Built-in calculator, clipboard desk accessories on //e and //c. For //e, //c, II + . For Apple III, \$229.

Publisher: Format:

Quark \$149.00

Price: Availability:

McKenzie Brown Canada

Catalog-editing and disk-copy utility for unlocked disks. Creates custom catalogs with inverse or flashing titles, filenames. Inserts blank lines, dashed lines, sorts listing. Copy whole disk, or by file type, wildcard. Remove DOS,

Publisher:

Roger Wagner Publishing

Format:

Price:

\$19.95 (US)

Copy II Plus

Complete disk and file copying utility. Copies protected disks, fast copies disks or files. Includes disk functions such as file un-delete, sector editing, track/sector map, drive speed test, change boot program, etc. For DOS 3.3, ProDOS

Publisher:

Central Point Software Disk

Format:

Price:

\$39.95 (US)

Discourse III

Places documents for print out on a floppy or hard disk file, queues up to 14 files without interfering with current program, allows viewing spool status, deleting, rearranging files in queue. For Apple III only, needs 256K RAM.

Publisher: Format: Price:

Ouark Disk \$189.00

Availability: McKenzie Brown Canada

Disk arRanger

Organizes disk directory. Catalog can be alphabetized by file name or type, individual names moved, headings added, hello program changed. Allows delete, unlock, lock, shows usage map, free space. C-64 version \$39.22.

Publisher: Format:

Penguin/Polarware Disk

Price: \$8.95 (US)

Disk Organizer

Organizes DOS Catalog listings, recovers deleted files, adds highlighted titles, etc. Menu-operated with help screen

Publisher:

Sensible Software

Format: Price:

\$29.95 (US)

Disk Repair Kit

Fixes blown disks by reading the disk, comparing to proper format, and automatically reconstructing areas with damaged information. User can inspect lost information and collect it.

Publisher: Format:

Penguin/Polarware

Price:

\$12.95 (US)

DOS Boss

Change all the DOS command names, replace volume header with your own title, make programs unlistable, etc. Includes Apple Tip Book 2 and Peeks & Pokes chart.

Publisher: Format:

Beagle Brothers

Price: Availability: \$24.00 (US) Ingram

Double Take

BASIC programmer's helper, lets program scroll both up and down on screen in regular format or one statement per line. Adds many useful features such as line renumbering, variable cross reference, program merging, etc. Works with GPLE

Publisher:

Beagle Brothers Disk

Format: Price: \$34.95 (US) Ingram

Availability:

EDD Version 4

The 'Essential Data Duplicator'. Backs-up most copyprotected software with no manual parameter setting. Copies whole, half or one-quarter tracks, finds auto-sync bytes, etc. Updates re newer protection schemes, etc. available from Utilico.

Publisher: Format:

Utilico Microware Disk

Price:

\$79.95 (US)

Edit Soft

Price:

Editor for Apple II system. Sensible Software

Publisher: Format:

Disk \$30.00 (US)

Availability: Ingram

Full-screen editor for use with Applesoft BASIC and Pro-DOS. Lets program listing scroll up or down. User cursors over listing making insertions or deletions. Includes hex/ dec conversions, search/replace, renumber, block move,

Publisher:

Troy Software Design Disk

Format: Price:

\$69.95 (US)

Special 'fingerprinted' diskettes and locking software. Files are encrypted on master disk, can be copied but require key disk to read. Optional password protection. Works with hard disk, single floppy and network systems.

Format:

Vault \$785.00

Dwenco, Datalok Availability:

Prints text to be printed to hi-res graphics screen, in either 20, 40, 56, or 70 column width. Displays upper and lower

case, permits keys to be redefined. Beagle Brothers

Format: Disk \$29.50 (US) Availability: Ingram

GALE Global Applesoft Line Editor

Applesoft line-editing tool. Includes program renumbering, variable cross-reference, renumbering, auto numbering, program merging, search-and-replace, keyboard macros, etc. Includes versions for 64, 48K. Works with MicroSPARC's AmperSoft.

Publisher:

MicroSPARC Disk

Format: \$49.95 (US)

GPLE Global Program Line Editor

Provides indispensable editing capability for the Applesoft programmer. Lets user insert, delete within lines. Does global search, replace, variable cross reference. Adds keyboard macro capability. Works with Pronto DOS, Double

Publisher: Format:

Beagle Brothers

\$49.95 (US) Availability: Ingram

Keybaord macro utility for Apple II or // series running under ProDOS. Allows any key to be defined as a command string. Macro tables can be stored to disk, loaded.

Troy Software Design

Publisher: Format:

Price: \$39.95 (US)

MacroWorks

Adds commands to AppleWorks, including undo. Creates 'solid-Apple' key macros, includes built-in macros. Gal ley program prints AppleWorks text files in columnar format. File Analyzer gives word counts, statistics.

Publisher:

Beagle Brothers Disk \$34.95 (US)

Format: Price:

Availability: Ingram

Software

Prolok, Hard Disk Prolok

Software protection system. Uses only 3K to 7K RAM, locks application to fingerprinted disk. Available in bulk to software developers. Price shown is for OEM package of ten disks. Hard Disk Prolok diskettes \$106.95 for OEM

ten-pack. Publisher:

Vault Corp

Format: Disk Price: \$93 50

Availability: Datalok, Dwenco

Shape Mechanic

Converts high-res drawings into shape tables for inclusion in title screens, charts, animation using Applesoft DRAW and XDRAW commands. Includes 30 proportionallyspaced high-res fonts, demo programs, etc. Routines can be used in programs

Publisher:

Beagle Brothers

Format:

Disk

Price:

\$39.95 (US)

Availability:

Short Cuts

Adds commands to Apple BASIC, including input-testing, format, sort, etc. Coexists with virtually any other utility, including others that add commands to BASIC.

Publisher:

Penguin/Polarware

Format:

Disk

Price: \$19.95 (US)

Super Disk Copy

Backs up protected disks. Includes utilities for sorting catalog listing, file copy, file un-delete, disk-usage map, etc. Supports wildcard file naming.

Publisher:

Sensible Software

Format:

Disk

Price:

\$34.95 (US)

Tip Disk 1

Includes 100 programs from the Beagle Bros Tip Books. Teaches various aspects of Apple programming, covers graphics, sound, etc

Publisher:

Beagle Brothers Disk

Format:

\$20.00 (US)

Price:

Availability:

Ingram

Utility City

Includes 21 Applesoft utilities such as Multi-Column Catalog, sort, hex conversions, printer dump, custom program lister with page breaks, etc. Includes Apple Tip Book 3 and

Peeks & Pokes chart.

Publisher:

Beagle Brothers Disk

Format: Price:

\$29.50 (US)

Availability:

Ingram

Videoterm Utilities Disk

Utilities for use with the Videx Videoterm 80-column display card. Includes scrolling, font editor, etc.

Publisher:

Videx Disk

Format: Price:

\$37.00 (US)

PRINTING

Image Printer

Smart screen dump utility for use with high-res graphics. Allows magnification, cropping, rotation, text labels, etc.

Sensible Software

Format: Price:

\$49.95 (US)

Printographer

Menu-driven picture-printing utility. Hi-res or lo-res dumps in regular or inverse, variable picture positioning, magnification, color, editing, mixed text and graphics with eight fonts included. Supports most DM printers, in color

Publisher:

Roger Wagner Publishing

Format: \$39.95 (US)

Price:

BUSINESS WORD PROCESSORS

AppleWriter II

Supports 40 or 80 column display, split screen functions, file linking, block functions, tab files storing up to 32 tab settings, glossary with quick insertion, special WPL macro programming language for forms, etc. Also in French.

Publisher: Format:

Apple

Availability:

\$225.00

Apple Canada

Bank Street Mailer

Mailing list and letter writing program adds full mail merge capability to Bank Street Writer. Creates form letters, standard letter formats, inserts names etc, creates custom databases, addresses envelopes. C-64 version \$49.95 US

Publisher:

Broderbund

Format:

Price:

Availability:

\$69.95 (US) Beamscope, Ingram

Bank Street Speller

Spell-checker companion to Bank Street Writer wordprocessor. Finds, highlights errors, suggests spellings. Does word count, allows word look-up. Contains over 31,000 words, expandable if two disk drives used. C-64 version \$49.95 US.

Publisher:

Broderbund

Format:

Price: Availability: \$69.95 (US) Beamscope, Ingram

Bank Street Writer

Uses simple menu-operated commands to give access to powerful editing functions such as block-move or searchand-replace. IBM version \$79.95 US, C64 or Atari 800

Publisher:

Broderbund

Format: Price:

Disk

Availability:

\$69.95 (US) Beamscope, Ingram

Cut & Paste Word Processor

Extremely user-friendly, easy-to-use word-processor designed for the complete novice. Functions such as searchand-replace, block move, block copy, etc are accessed through a menu-bar. Not available for Apple II +, only //e.

Publisher:

Electronic Arts

Disk

Format: Price:

\$19.95 (US)

Availability:

Beamscope, Ingram

Format II

Friendly system uses mnemonic commands for common functions such as Centering text, Deleting, Justification, etc. Uses standard DOS text files, supports all Applecompatible printers. Includes index card database system with Sorting, etc.

Publisher:

Kensington Microware

Format: Price:

\$150.00 (US)

HomeWord

Icon-based user-friendly word processor. Includes search & replace, formatting, spelling checker, etc. C-64 version \$49.95 US

Publisher:

Sierra On-Line

Format: Price:

Disk \$69.95 (US)

Availability:

IBM, Ingram, Radio Shack

HomeWord Speller

Simple to use spellchecker for HomeWord word processor. Contains 45,000 words, accepts up to 5000 extra

words **Publisher:**

Sierra On-Line

Format:

Disk

\$69.95 Price:

Availability: Radio Shack

Magic Mailer

Form-letter generator for use with Magic Window or other word processing software. Inserts data into text, refor-

Publisher: Format: Price:

Disk \$69.95 (US)

Magic Window II

Simple, easy to use word processor. Features justification, line delete, undelete, move, etc. Works in 40 column with horizontal scrolling, uses 80 column hardware, or generates 70 column display in software.

\$149.95 (US)

Publisher:

Artsci Disk

Format: Price:

Magic Words Spellchecker designed to work with Magic Window II

Publisher:

ary, allows addition of 2500 words. Artsci Dick

Format: Price:

\$69.95 (US)

word processing program. Includes 14,000 word diction-

Software

MailMerge

Option for WordStar word processor generates customized form letters for mass mailing, assembles documents from boilerplate paragraphs, prints invoices from DataStar/In-

Publisher:

Price:

MicroPro Disk (2) Format: \$99.00 (US)

MasterType's Writer

Includes features such as dual windows, outlining, color highlighting, multiple typefaces, macro commands, online tutorial, etc.

Publisher:

Scarborough Systems

Format:

Disk

Price:

\$44.95 (US)

MouseWrite

Mouse-based word processor for Apple IIe and IIc. Provides Macintosh-like screen display with pulldown menus, scroll bars, dialog boxes, multiple windows, etc. Includes clipboard and puzzle

Publisher:

Roger Wagner Publishing

Format:

Price:

\$125.00 (US)

MultiScribe

Macintosh-like word processing system, uses double highres display on Apple IIe or IIc to display various type styles, fonts, effects, pulldown menus, etc. Uses keyboard or mouse, supports ImageWriter, Epson, Okidata. Includes font editor.

Publisher: Format:

StyleWare Disk \$59.95 (US)

Price:

PaperClip Dual edit windows, cut & paste between two documents, optional auto-save, horizontal scrolling, macros, print preview, etc. Can be customized, saved in various versions. Commodore/Atari Duo Pack \$49.95.

Publisher:

Batteries Included

Format:

Disk \$79.95

Price: Availability:

Beamscope, Ingram

PeachText

Full-feature word-processor includes search-and-replace, mail merge, etc. Includes Spelling Proofreader and Random House Electronic Thesaurus. Allows synonym lists to be displayed on the normal edit screen, substitutes selected words

Publisher: Format:

Peachtree Disk (2) \$395.00 (US)

Price: Availability:

Ingram

Perfect Writer

Offers deletion by character, word, line, paragraph, screenful, block, search/replace, etc. Edit up to 7 files at once, display two at a time in windows. Scroll one window while editing the other, move blocks, etc. Apple II version \$139 US.

Publisher: Format:

Thorn EMI Disk \$199.00 (US)

Price: Availability:

Ingram

PFS: Proof

Spellchecker for use with PFS:Write or any ASCII text files. Displays questionable spellings, suggests correction, lets user leave original spelling if desired. Includes online help, 100,000 word expandable dictionary. For Apple II, \$75 US

Publisher:

Software Publishing

Format: Price: Availability: Disk \$95.00 (US) Ingram

Pinpoint Spelling Checker

Pops up in AppleWorks to quickly check individual words, paragraphs or entire document. Suggests up to 10 alternate spellings, corrects words in place, reformats as it corrects. Includes 55,000 word expandable dictionary.

Publisher:

Pinpoint Publishing

Format: Price: Availability:

Disk \$69.00 (US) Ingram

ScreenWriter II

Uses disk buffering to allow documents up to 65,000 characters. Shows upper/lowercase 70 columns on screen, supports 80 column hardware. Includes search/replace, justification, form letters, onscreen tutorial, 'Dictionary' spellchecker.etc.

Publisher: Format:

Sierra On-Line Disk \$129.95 (US)

Ingram

Price: Availability:

Sensible Speller

Spelling checker works with most Apple word-processor files, including DOS 3.2/3.3, Pascal, and CP/M. Two dictionary disks total 80,000 words, expandable. Supplementary dictionaries available, \$99.95 U.S. Most features work with one drive.

Publisher:

Sensible Software Disk

Format: Price:

\$125.00 (US) Ingram

Availability:

Super-Text Professional

Easy to use word-processor includes onscreen formatting, word wrap, page and chapter numbering, unlimited document size, block functions, search and replace, split screen, etc. C-64 version has software 80-column display, \$134.95

Publisher: Format: Price:

Muse Disk \$79.95 (US)

Superscript

Full help, menus. Built-in spell checker with 30,000 word dictionary. Supports boald, underline, header/footer, footnotes, math functions, mail merge, etc. Integrates with Superbase data system. DOS 3.3 version \$99.95, Atari 800 \$49.95.

Publisher:

Precision Software Disk

Format: Price:

\$79.95 (US)

Availability:

Progressive Peripherals & Software

Idea processor, makes it easy to take and organize notes. Organizes ideas and concepts into outline format, expands any entry to further levels of detail. Works as a textprocessing environment. Apple version needs 128K RAM. Publisher: Living Videotext

Format:

Disk

\$195.00 (US)

Webster's New World Spelling Checker

Straightforward, easy-to-use spelling checker. Works with most text file formats. Allows preview of misspelled words, shows words in context, allows one-key replacement, addition to auxiliary dictionary, etc.

Publisher: Simon & Schuster

Format: Price:

Disk \$59.95 (US)

Availability: Ingram

Word Juggler II

All usual features, formatting, etc, plus Lexicheck spell checker with 50,000 word dictionary. Allows viewing of alternate words while editing a document. Creates form letters from PFS or Quick File files. Apple III version \$339

Publisher:

Ouark Disk

Format: Price:

\$149.00

McKenzie Brown Canada Availability:

Word Perfect

Full-feature word-processing system. Publisher: Satellite Software

Format: Price:

Disk (2) \$179.00 (US)

Availability: Ingram

WordStar 3.31

Perennial favorite word processing program. Uses multiple pull-down menus with selectable level of Help. Includes usual block functions, search/replace, etc. Formats on screen. Integrates with other MicroPro products. French version also.

Publisher:

MicroPro Disk

Format: Price:

\$350.00 (US)

Availability: Ingram

Write Choice, The

Word-processing system for Apple II, // family. Includes The Correspondent word processor, The Analyst word-counter and readability analyzer, Tut's Typer graphic keyboard tutorial game, plus style manual, Strunk & White Elements of Style.

Publisher:

Roger Wagner Publishing

Format: Disk

\$44.95 (US) Price:

DATA MANAGERS

Bank Street Filer

Easy-to-use filing program, integrates with Bank Street Writer. Inserts reports into Bank Street Writer documents, provides english-language queries, browse, etc. C-64 version \$49.95 US.

Publisher: Format:

Broderbund Disk

Price: Availability: \$69.95 (US) Beamscope, Ingram

Software

Rookends

Designed for storage of bibliographic references, abstracts. Allows editing, search by author, keyword, etc. Multiple report formats. Roughly 120-240 records in 64K, up to 900 on a disk. Chains files across multiple disks.

Publisher: Sensible Software

Format: Disk \$124.95 (US) Price: Availability: Ingram

DR Master 4 Plus

Maintains files spanning up to 200 diskettes. Includes built in field editor, DIF translators, field calculations, password protection, file restructuring, merge file, etc. Includes conversion for VisiFile and PFS files.

Publisher: Stoneware Format: Disk

Price: \$295.00 (US)

dBase II

Extremely popular data-management system, comprising a programming language and powerful data-manipulation commands. Allows creation of highly customized applications for data-entry, retrieval, reports generation, etc.

Publisher: Ashton-Tate Format: Disk Price: \$665.00

Ingram, Radio Shack Availability:

General Manager

Lets you create your own information screens, search, print, send data to DOS text file. Set of three disks.

Publisher: Sierra On-Line Format: Disk \$230.00 (US) Price:

Home Data Manager

Keep, find, sort, and print information for home or small business. Uses simple file folder graphic display with tabs to show how information can be found. Unprotected.

Publisher: Penguin/Polarware

Format: Disk \$24.95 (US) Price:

Magic Memory

Menu driven, easy to use database. Simulates an address book, with two sets of index tabs: A-Z plus 24 userdefinable tabs. Each tab holds 250 records of 9 lines each. Add, delete, edit, sort with a single keystroke.

Publisher: Artsci Format: Disk Price: \$59.95 (US)

Mastertype Filer

A list management program for the home. Catalogs, processes, files, manages household records.

Publisher: Scarborough Systems Format: Disk

\$39.95 (US) Price: Availability: Ingram

NPL Information Management System

Powerful data-management system. Allows paijnting of data entry screen, entry validation, sort, mergeing record, reporting, etc.

Publisher: DeskTop Software Disk Format: \$495.00 (US) Price:

Perfect Filer

Full-feature records manager, includes pop-up menus, 16 predefined data entry forms. Can share data with either Perfect Writer or Perfect Calc, for production of form letters, labels, etc. Apple II version \$139 US.

Publisher: Thorn EMI Format: Disk \$199.00 (US) Price: Availability: Ingram

PFS: File

Simple to use card file type database. Offers free-form editing of input screen, variable length fields, multi-page records, plus standard searching, sorting, etc. IBM version \$140 US. Apple II version \$49.95 US.

Publisher: Software Publishing Format: Disk Price: \$125.00 (US) Availability: Ingram, Radio Shack

PFS: Report

Report generating option for use with PFS:File database. Produces columnar reports, includes totals, subtotals, etc. C-64 version \$69.95 US.

Publisher: Software Publishing Format: Disk \$125.00 (US) Price: Availability: Ingram, Radio Shack

ProFiler 2.1

Easy-to-use, comprehensive data manager and report generator. Uses ProDOS, supports hard disk. Includes conversion program for importing PFS files.

Publisher: PDI Software Format: Disk \$89.95 (US) Price:

QuickFile

Data manager, allows form creation, query, mail merge Prints reports, labels.

Publisher: Format: \$40.00 Price: Availability: Apple Canada

Superbase

Fully menu-driven. Sorts, creates, lists. BASIC enhancement feature lets user access over 100 BASIC commands. Also available in French. ProDOS version \$149.95 US. Apple //e, //c, Commodore C-64 and C-128 versions \$79.95 US

Publisher: Precision Software Format: Disk \$99.95 (US) Price:

Availability: Progressive Peripherals & Software

VisiFile

Simple, convenient, fast cardfile system. Allows freeform data entry, retrieval by either keywords or brute force search. Also includes reminder calendar feature, printer support, etc. IBM version \$149 US.

Publisher: VisiCorp Format: Disk \$129.00 (US) Price: Availability: Ingram

SPREADSHEETS

Magicalc

Second-generation spreadsheet, supports multiple RAM cards up to 512K, 80-column hardware or 70-column software display, variable column widths, cell protection, etc. Interfaces to VisiCalc and DIF files.

Publisher: Artsci Format: Disk \$99.95 (US) Price:

Multiplan

Popular and powerful spreadsheet program. Allows spreadsheets to be linked together for sharing of information. Includes online 50-page reference/help manual. Tandy 6000 XENIX, \$449. Apple II, \$95 US. Macintosh \$195 US.

Publisher: Microsoft Format: Disk \$245.00 Price: Availability: Ingram, Radio Shack

Perfect Calc

Includes usual calculating operations, split screen display, pop-up menus, ability to share data between up to 15 different spreadsheets, advanced stats functions such as linear regression, interpolation, etc. Apple II version \$139

Publisher: Thorn EMI Format: Disk \$199.00 (US) Price: Availability: Ingram

PFS: Plan

Easy-to-use spreadsheet. Includes all the usual functions, integrates with PFS:Write, PFS:Graph, PFS:File. Apple II version \$125 US

Publisher: Software Publishing Format: Disk \$140.00 (US) Price: Ingram, Radio Shack

SynCalc

Availability:

Easy-to-use yet full-featured spreadsheet with pop-up menus. Offers flexible formatting options, 128 columns by 255 rows, fixed or synchronous windows, data sorting. etc. Compatible with SynFile, SynTrend, AtariWriter, VisiCalc & PaperClip

Publisher: Broderbund Format: Disk \$49.95 (US) Price: Availability: Beamscope, Ingram

TK!Solver

Unique "equation processor" performs math functions for applications in engineering, finance or other areas. Performs iterative solving, unit conversions, generates graphs or plots. Needs 128K. Apple //e version \$439, Macintosh

Publisher: Software Arts Format: Disk Price: \$299.00 (US)

Software

TK!SolverPacks

Many applications available for use with TK!Solver equation processor. Coverage includes engineering, finance, introductory science, building design and construction. Macintosh versions \$99, others as shown below

Publisher: Format:

Software Arts Disk \$99.95 (US)

Price:

VisiCalc

The original spreadsheet, still a useful tool. Includes all the basic math functions, cell replication, etc. IBM version \$99 US. Atari XL version \$199.95 US.

Publisher: Format:

VisiCorp Disk

Price: Availability:

\$250.00 (US) Ingram

VisiCalc Advanced Version

Upgraded version of VisiCalc adds features such as extra formatting flexibility, logical commands, protected cells, variable column width, keyboard macros, etc.

Publisher: Format:

VisiCorp Disk \$400.00 (US)

Price: Availability:

Ingram

INTEGRATED

AppleWorks 1.3

Word processor, spreadsheet and database under common user interface. Allows moving of data between sections. Version 1.3 on floppy or microfloppy, supports RAM expansion card. French version 1.2 on floppy only, no extra RAM support.

Publisher: Format:

Apple

Price. Availability:

\$375 00 Apple Canada

Appleworks Modifier

Patches the Appleworks boot disk to allow the software to work with an Apple II using a Videoterm 80-column display adapter.

Publisher: Format:

Videx Disk

Price: \$49.00 (US)

HomePak

Includes three packages: HomeText full screen editor with cut & paste, boldface, mail merge, etc; HomeFind data manager; and HomeTerm communications system with XMODEM protocol, file capture to disk. Menu or commands

Publisher:

Batteries Included

Format: Price:

Disk \$69.95

Availability: Beamscope, Ingram

Integrated, mouse/icon oriented user-friendly package. Includes Janewrite word-processor, Janecalc spreadsheet, and Janelist file manager. Displays underlining, super/ subscripts, etc. Coming soon for IBM and C-64. Price includes mouse.

Publisher: Format:

Arktronics Hard disk \$195.00 (US)

Price: **Availability:**

Magic Office System

Combines enhanced version of Magic Window II word processor, Magicalc spreadsheet, graphics package for producing pie charts or multiple bar graphs, and automatic spellchecker. Uses windows, icons. Menu and function key operation.

Publisher:

Artsci Disk

Format: Price:

\$249.95 (US)

FINANCIAL

Back to Basics Accounting System

Double-entry accrual accounting system, consisting of interactive AR, AP, and GL packages. Many features. Price shown is per module. Also available in various combinations.

Publisher: Format: Price:

Peachtree Disk (2) \$195.00 (US) Ingram

Availability:

Excalibur Plus

Eleven module business systems, includes: GL, AP, AR, Payroll, Inventory, Billing, Order Entry, Counter Sales, Work in Process, Customer Information, Depreciation. Modules \$695 each, except Customer Information and Depreciation, \$395 each.

Publisher: Format:

Armor Systems Disk

\$695.00 (US)

Financial Cookbook

Menu-driven financial calculations designed to be used without any prior knowledge of either finance or computing. Pick from over 30 types of calculations, fill in input form and get tabular results. Supports printers.

Publisher: Format:

Electronic Arts

Price:

Disk \$69.95

Availability: Beamscope, Ingram

Integrity Business Software

Complete integrated business system, including AR, AP, GL, Inventory, Sales Order Entry, each \$780, or \$1095 for multi-user versions. Cashbook module \$495 for either single-user or multi-user. Runs under CP/M, MP/M, MS-DOS, Concurrent DOS

Publisher:

Integrity Management Services Disk

Format:

\$780.00 Price:

Availability:

Lintex Computer Group

VersaBusiness Series

Complete accounting systems, including VersaReceivables, VersaPayables, VersaPayroll, VersaInventory and VersaLedger. Price is per module; VersaLedger \$149.95 US. Each can be used separately.

Publisher: Format:

N & E Computronics Inc Disk

Price:

\$99.95 (US)

Your Personal Net Worth

Comprehensive program for tracking, organizing, managing home finances. Allows entry of income, expenses. Provides financial guidance including loan/interest analysis. Up to 10 checking accounts, 350 budget items, etc. IBM version \$99.95

Publisher:

Scarborough Systems

Format: Disk \$79.95 (US) Price:

Availability:

Ingram

GENERAL GRAPHICS

Aditional Type Sets

Fifty extra character sets for Penguin's Complete Graphics System. Include Old English, Italic, Shaded, Block, Hebrew, Russian, Arabic, Japanese, etc. Large and small size. Two sides of a disk

Penguin/Polarware

Publisher: Format:

Price:

\$19.95 (US)

Disk

Alpha Plot

Hi-res paint program. Allows user to draw on both graphics pages, combine drawings, compress for storage, add text in various fonts and sizes

Publisher:

Beagle Brothers Disk

Format:

\$39.95 (US)

Availability: Ingram

B/Graph

Statistical/business graphics package. Creates pie, bar, line, scatter, 3-D charts, with labels, colors, etc. Convert instantly between types. Graph up to 3 factors with 100 data points each. Reads and writes VisiCalc DIF files.

Publisher:

Batteries Included

Format:

\$39.95

Availability: Beamscope, Ingram

Bank Street Storybook

Allows kids to create dynamic multi-page stories with animation and sequencing. Stories can be stored, printed out. C-64 version \$29.95 US.

Publisher: Format:

Mindscape \$39.95 (US)

Price: Availability:

Beamscope, Ingram

Beagle Graphics

Double high-resolution paint system. Includes various typestyles, cut & paste, 200 color-mixes and pattern fills, 33 new Applesoft commands including fill, complress, slideshow, etc. Supports keyboard, joystick, Koala Pad, mouse, etc.

Publisher:

Beagle Brothers

Format: Disk Price:

\$59.95 (US) Availability:

Ingram

Apple II -

Software

Blazing Paddles

Draws, paints, prints hi-res pictures. Allows color mixing to create over 200 colors, various brush strokes, airbrushing, ovals, lines, rectangles, zoom editing. Includes text fonts, shapes. C-64 and Atari versions, \$34.95 US.

Publisher: Baudville
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Cat Graphics

Adds 55 commands to BASIC. Includes fill, text on graphics, shape drawing, color flip, horizontal and vertical scrolling, magnify portions of screen, pack and unpack pictures for storage, etc. Up to 108 colors on II \pm , 256 on //

Publisher: Penguin/Polarware
Format: Disk
Price: \$19.95 (US)
Availability: Ingram

Charts Unlimited

Spreadsheet-style drawing program. User enters predefined objects or symbols into cells on a 124 x 90 grid, representing 868-630 pixels. Display shows 1/16 of full picture, includes 'View' window to see complete image.

Publisher: Graphware
Format: Disk
Price: \$195.00 (US)

Complete Graphics System, The

Easy-to-use drawing and design package for the non-programmer. Wide choice of brushes, color fill, airbrush effects. Create 3-D line drawings, rotate on any axis, edit, combine. Add text, move sections, etc. For II+ or //e double-res.

Publisher: Penguin/Polarware
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

Dazzle Draw

Draws like a colored marker in 16 colors. Paint with a brush, spray paint, pattern fill, cut & paste, zoom, create slide shows. For 128K Apple //e or //c. Supports RGB display, mouse, joystick, Koala Pad or other graphics tablet.

Publisher: Broderbund
Format: Disk
Price: \$59.95 (US)
Availability: Beamscope, Ingram

Delta Drawing

Simple educational graphics program, creates pictures one step at a time using a minimum of keyboard strokes. Pictures may be nested one within another.

Publisher: Spinnaker
Format: Disk
Price: \$39.95 (US)
Availability: Beamscope, Ingram

Designer's Pencil

Easy-to-use sound and graphics system. C-64 version \$29.95 US.

Publisher: Activision
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Doublestuff Plus

Painting program designed to take advantage of double hires graphics capabilities on Apple //e and //c. Draws in 16 colors, supports joystick, Koala Pad, and mouse.

Publisher: Doublestuff Software Format: Disk Price: \$69.95 (US)

Fantavision

Draw patterns and use color fill, then animate them through turns, spins, bounces. Computer creates up to 64 drawings for every one drawn by user, producing celanimation movement and special effects.

Publisher:BroderbundFormat:DiskPrice:\$49.95 (US)Availability:Beamscope, Ingram

Font Mechanic

Set of 30 high-res typefaces for use with Beagle Shape Mechanic or Apple Mechanic. Includes utilities to convert fonts from DOS Toll Kit, Penguin or other formats, do distortions such as stretch or compress, etc. Works with DOS 3.3, ProDOS.

Publisher: Beagle Brothers
Format: Disk
Price: \$29.95 (US)
Availability: Ingram

Frame-Up

High-speed slide show utility, sequences up to 17 hi-res or 136 lo-res screens for display. Includes text screen creation utility

Publisher: Beagle Brothers
Format: Disk
Price: \$29.50 (US)
Availability: Ingram

Graphics Department

Create charts from business data. Includes pie, bar, scatter, line graphs, plus box-type flow charts. Includes lettering kit with 30 fonts, graphics tools, slide-projector sequencer for up to 32 screens. Accepts VisiCale DIF files.

Publisher: Sensible Software
Format: Disk

Graphics Magician Painter & Animator

Screen-drawing program with integrated animation capabilities. Screen images can be stored as "Sequential Picture Code" for fast animation. Provides for file transfer between supported computers.

Publisher: Penguin/Polarware
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Map Pack

Provides graphic outline maps of all US states. Canadian provinces, and the continents. Load maps into Penguin's Complete Graphics System or other graphics software.

Publisher: Penguin/Polarware
Format: Disk
Price: \$12.95 (US)

See Almost Free Software for the Apple in Software Catalogue – page 81. Minipix

Set of 200 pictures for use with Broderbund's Print Shop or various Beagle utilities such as Shape Mechanic, Alpha Plot, etc. Can convert part of any high-res graphic into Print Shop format, includes picture editor. Uses DOS 3.3 or ProDOS.

Publisher: Beagle Brothers
Format: Disk
Price: \$29.95 (US)
Availability: Ingram

Mr Pixel's Cartoon Kit

Kids select or build cartoon characters, combine them into cartoon features. Integrates with Mr Pixel's Programming Paint Set

Publisher: Mindscape
Format: Disk
Price: \$34.95 (US)
Availability: Beamscope, Ingram

Mr Pixel's Electronic Paint Set

Lets kids draw in full color, change their creations in novel ways. Compatible with Mr Pixel's Cartoon Kit. C-64 version \$39.95 US.

Publisher: Mindscape
Format: Disk
Price: \$29.95 (US)
Availability: Beamscope, Ingram

Paper Graphics

Prints any graphics screen. Crop picture to size, magnify areas, print sideways, upright, reverse, upside down, label pictures. Works with virtually all printer/interface combinations.

Publisher: Penguin/Polarware
Format: Disk
Price: \$19.95 (US)

PatternMaker

Explores the fundamentals of symmetry in drawing and design. Color patterns appear on the screen at the touch of a key, can be duplicated, expanded, contracted, rotated, edited. Learn mode enables patterns to be animated.

Publisher: Scarborough Systems
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

PFS: Graph

Generates several types of charts including pie, line, bar, side by side bar with pattern fill, stacked bar, etc, from PFS:File data. Combines chart types on one display, merges with PFS:Write documents. Apple II version \$125 US. Publisher:

Software Publishing

Publisher: Software Publishing
Format: Disk
Price: \$140.00 (US)

Picturewriter

Availability:

Creates shapes, patterns. Fills, adds music. Includes library of pictures. Displays visual command menu at all times. Needs Koala Pad or equivalent.

Ingram, Radio Shack

Publisher: Scarborough Systems
Format: Disk
Price: \$29.95 (US)

Software

Pixit

Creates, modifies hi-res shapes. Combine and edit up to 128 shapes in one table, create pictures with mixed text and graphics, circles, lines, etc. Includes slide show program, text, and pre-drawn shape library.

Publisher: Baudville
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Print Shop Companion, The

Add-on for The Print Shop, features new typestyles, borders, custom calendar feature, font and border editors, enhanced graphic editor with fill, etc. Mouse optional. Apple version only at presstime.

Prublisher: Broderbund
Format: Disk
Price: \$39.95 (US)
Availability: Beamscope, Ingram

Print Shop Graphics Library - Disk 1 & 2

Two sets of extra Print Shop graphics, each containing 120 new designs for holidays, special occasions, sports, school, etc. IBM version \$34.95 US.

Publisher: Broderbund
Format: Disk
Price: \$24.95 (US)
Availability: Beamscope, Ingram

Print Shop, The

Simple menus allow the user to print out banners, letterheads, signs, cards, etc. Choose from many built-in designs, use edit screen to create your own original art. Several built-in fonts. Apple II \$49.95 US, C64 or Atari 800 \$44.95 US.

Publisher: Broderbund
Format: Disk
Price: \$59.95 (US)
Availability: Beamscope, Ingram

PrintMaster

Unabashed clone of Print Shop, allows users to create banners, cards, signs, etc, by pasting together pre-drawn graphics and fancy text fonts. Includes 8 fonts, 11 borders, 111 graphic images, editor. Art Gallery of extra pictures \$44.95.

Publisher: Unison World Format: Disk Price: \$59.95 (US) Availability: Ingram, STari

Shape Libraries

Collections of pre-drawn shapes for inclusion in art work created using Baudville's Pixit or Blazing Paddles graphics systems. Three sets available: Shapes and Fonts, Science, and Kid Stuff.

Publisher: Baudville Format: Disk Price: \$20.00 (US)
Availability: Ingram

Take :

Define shapes and movements, "shoot" scenes frame by frame, add text, combine scenes to make a complete movie. Allows variable frame rate, no color restrictions, frame editing. Up to 5-10 minutes in RAM, 20-30 minutes with disk access.

Price: Sp.95 (US)

Availability: Baudville

Baudville

Disk

Price: \$59.95 (US)

Availability: Ingram

TGS: The Graphics Solution

A graphics editor and animation system for combining graphics and text, building bit-mapped shapes that can later be animated on the screen. Multiple backgrounds, objects. Proper display of hidden lines. Keyboard macros. DOS 3.3 compatible.

Publisher: Accent Software
Format: Disk
Price: \$149.95 (US)

Transitions

Organize picture disks and do sequenced presentations. Includes over 35 screen 'wipe' effects such as top to bottom, spiral, radar screen, etc. Preview pictures in miniature format, pack up to 100 pictures onto a disk for storage.

Publisher: Penguin/Polarware
Format: Disk
Price: \$19.95 (US)

Triple Dump

Dumps high-res, low-res, double high-res and double low-res graphics, prints banners up to 8.5 inches high. Routines can be incorporated in any Applesoft programs. ProDOS and DOS 3.3 compatible.

Publisher: Beagle Brothers
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

VisiTrend/Plot

Statistical graphing system, allows input and analysis of time series data. Automatically does multiple linear regression, trendline forecasting, smoothing, etc.

Publisher: VisiCorp Format: Disk Price: \$99.00 (US) Availability: Ingram

Zoom Graphix

Apple hi-res graphics screen-dump utility. Allows printing in positive or negative form, with rotation, scaling, altered proportions, etc. Parts of screen can be selected for printing separately.

 Publisher:
 Phoenix

 Format:
 Disk

 Price:
 \$49.95 (US)

MUSIC

Alfred's Computer Music Software series

Software packages for self-directed learning. Titles include Basic Band Computer Tutor, Practical Theory, Music Achievement series, Music Made Easy. Prices range up to \$275 per module.

Publisher: Alfred Publishing
Format: Disk
Price: \$40.00

Availability: Waterloo Music

Algorithmic Composer

A collection of three programs intended for the experimental composer. Requires Keyboard Controlled Sequencer, interfere

Publisher:

Dr T's Music Software

Format: Disk Price: \$149.00

Bank Street Music Writer

Computer arranges notes on two music staffs, makes it easy for beginners to compose tunes, experiment with melody, harmony, rhythm. Able to include repears, endings, triplets, etc.

Bare Facts Series, The

Intended to teach, test and evaluate through progressively challenging lessons and games. Covers topics such as Notes, Rhythms & Terms, Chords & Intervals, Music History, Composers. Requires 64K RAM. Module prices range up to \$110.

Publisher: Waterloo Music Format: Disk Price: \$42.00

Casio Editor/Programmer/Librarian

Complete instrument voicing system for the Casio CZ 101, 1000, 3000 and 5000. Includes interactive editor, 10 banks of patches. Requires MIDI interface.

Publisher: Syntech
Format: Disk
Price: \$249.00

CZ Patch Librarian

Software tool for the creation, editing and storage of patches on the Casio CZ-101, 1000 and 5000 synthesizers. C-64 version \$95 US.

Publisher: Dr T's Music Software
Format: Disk
Price: \$120.00 (US)

DX Patch Librarian V2

Special-purpose software tool designed to simplify the creation and storage of patches for the Yamaha DX synthesizers. Permits programming of TX and 8-16 expansion modules without a DX-7.

Publisher: Dr T's Music Software
Format: Disk
Price: \$125.00 (US)

DX-1 Echo

Adds digital delay capability to DX-1 sound system. Over 40 routines for echoing and processing sound. Control echo loop time, sample rate, etc. Includes feedback potentiometer. Requires DX-1 sound sampling hardware.

Publisher: Decilionix
Format: Disk
Price: \$149.00 (US)

DX-1 Sound Sampling System

Samples and reproduces sounds. Five-octave range, sequencer, saves sounds or sequences to disk. Many manipulations: transpose, reverse, etc. Samples up to 36 Khz. Uses Apple keyboard, or add Syntauri, Passport. Includes peripheral card.

Publisher: Decilionix
Format: Disk
Price: \$349.00 (US)

FV=

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Software

DX-1 Splash

Six color, high-resolution real-time displays show digitized sound on the screen. Requires DX-1 sound hardware.

Publisher: Format:

Decilionix Disk

Price:

\$45.00 (US)

DX-1 Volumes 2-5

Four sets of pre-recorded sound for the DX-1 sound system. Volume 2: piano, guitar, etc. Vol 3: space sounds, explosions. Vol 4: percussion. Vol 5: dog bark, car horn, hiccup, etc. Requires DX-1 sound hardware.

Publisher: Format:

Decilionix

Price:

Disk \$79.00 (US)

FM Drawing Board

A voice librarian and voice parameter editor for use with the Yamaha DX-7 synthesizer.

Publisher:

Nexus Disk

Format: Price:

\$300.00

JXPress

Programming editor, librarian for Roland JX8P synthesizer. Complete instrument voicing system, features 4 banks of patches, loop recorder, auto-search.

Publisher: Format:

Syntech Disk

Price:

\$249.00

Keyboard-Contolled Sequencer

Sequencer, includes complete editing system with flexible options for structuring music and realtime control from computer keyboard, C-64 version \$150 US

Publisher:

Dr T's Music Software

Format:

Disk

Price:

\$175.00 (US)

Master Tracks

Realtime, step-time and song-mode sequencing combined in one program. Controls MIDI keyboards, voice modules and drum machines. Requires Passport MIDI interface.

Publisher: Format:

Passport Designs

Price:

Disk \$379 50

MIDI Music Tutor

Ear training system. Covers intervals, chords, etc, from beggining to advanced. Includes record keeper. Requires Passport MIDI interface and keyboard. Three volumes, price shown is for complete set.

Publisher:

Passport Designs Disk

Format: Price:

\$349.50

MIDI Pro Toolkit

Contains complete documentation for the MIDI Pro Interface, assembly language driver routines with object and source code, Applesoft BASIC demo program. For Apple //c only

Publisher:

Passport Designs

Format: Price:

Disk \$25.00 (US)

Availability:

Remenyi

MIDI Sampler

Single track record, playback, save to disk. Comes with library of with baroque masterpieces. Requires Passport MIDI interface and keyboard.

Passport Designs

Format: Price:

\$59.50

MIDI Song Albums

Lets you hear and play along with your favorite music using a MIDI synthesizer. Use complete full-voice arrangements, add color graphics on screen. Titles include The Beatles, Pops, etc. Price is per album. Requires MIDI synthesizer.

Publisher:

Passport Designs

Format: Price:

Disk \$59.50

MIDI Voice Librarian

Loads up to 4 banks of 32 sounds directly from software, stores and recalls individual sounds as well as whole banks. Requires MPU-401 interface. Apple version for IIe.

Publisher: Format:

Passport Designs Disk

\$109.00 Price:

MIDI/4 Plus

Performs digital recording of all MIDI music information. Allows unlimited overdubs, sync with drum machines. Requires Passport MIDI interface and keyboard.

Publisher:

Passport Designs

Format: Price:

Disk \$199.50

MUSE (MIDI Users Sequencer/Editor)

A second-generation 8-track sequencing and editing program, with 6000-note capacity. For use with any MIDIequipped instruments

Publisher:

Roland Canada

Format: Price:

Disk \$225.00

Music Construction Set

Uses the icon conventions of the Pinball Construction Set, but applies them to a music staff. Allows the user to assemble long passages then play them back. Apple version supports Mockingboard. C-64 and Atari version \$22.95 US

Publisher:

Electronic Arts

Format: Disk Price:

Availability:

\$39.95 (US) Beamscope, Ingram

Music Digital Studios 1 and 2

Include many features such as 16 sequences and MIDI channels, 8 tracks, track merging, play and record, digital delay, disk save and load. Publisher:

Format:

Syntech Disk

Price:

\$299 00

Notable Phantom, The

First in a series of music learning games. Includes piano keyboard overlay, teaches note names, positions on staff and keyboard in a game of ghosts, phantoms, and spiders. Lets kids compose and save songs. Includes songbook of favorites

Publisher: Format:

DesignWare Disk \$49.95 (US)

Price: Availability:

Ingram

Omnibus

A MIDI librarian. Features ability to file single patches as well as entire groups, save comments with MIDI dump, store to auxilliary drives or hard disk. Provides help windows, search function. Requires MIDI instrument, inter-

Publisher: Format:

Price:

Syntech Disk \$225.00

Polywriter

Music printing system, creates hardcopy in standard musical notation of a keyboard performance. Includes full editor. Requires Passport MIDI interface and keyboard, as well as dot-matrix printer with graphics interface.

Publisher: Format: Price:

Passport Designs Disk \$449.50

Polywriter Utilities

Converts Polywriter and Leadsheeter music graphic files into MIDI/4, MIDI/4 Plus, and MIDI/8 sequencer files. Requires MIDI keyboard, interface, dot matrix printer with graphics capabilities

Publisher:

Passport Designs

Format: Price:

Disk \$169.50

Roland MRC (Music Recorder Software)

Eight-track, polyphonic recording program. Records and plays back dynamics, patch changes, bender, pedals, aftertouch, etc. Automatic corrections. Stores 3400 notes on Apple, up to 35,000 notes on 256K IBM. Needs MPU-401, MIDI instrument.

Publisher:

Roland Canada Music

Format: Price:

Disk \$200.00

Sequence Compiler

Runs under Apple CP/M, works with most word processors, such as WordStar.

Publisher:

MIDI Connection Disk

Format: \$99.99 Price:

Songwriter

Uses simulated piano roll graphics, onscreen commands to guide user from scales and rhythm to more complex musical forms, theory. Permits writing a song, changing tempo, addition/deletion of notes, creation of motifs. Includes 28 songs.

Publisher:

Scarborough Systems

Disk

Format: Price:

\$39.95 (US) Availability: Ingram

Synthestra

A MIDI sequencer and controller program. Handles up to 16 MIDI instruments and devices from one keyboard. Requires MIDI interface, at least one MIDI keyboard.

Publisher: Format: Price:

Decilionix Disk \$120.00 (US)

Yamaha DX-Pro

Allows easy programming of Yamaha DX-7 synthesizer modules. Saves, retrieves, organizes. Includes nearly 300 voices in disk library. Requires interface, synthesizer. Yamaha Canada

Publisher: Format:

Disk

\$325.00

COMMUNICATIONS

ASCII Express

Complete modem communications utility package. Includes auto-dial, sign-on macros, uploading, downloading, terminal emulation, text editor, etc. Supports most modem hardware, handles data transfer at up to 9600 baud.

Publisher:

United Software Industries

Format:

Disk

Price: Availability:

\$129.95 (US) Ingram

Crosstalk

Comprehensive data communications program. Works with most modems, offers smart-terminal emulation, autodial, auto-answer, data-capture, file transfer, online help, etc. Supports KERMIT protocol for mainframe transfer. Works with TopView.

Publisher:

Microstuf

Format: Price:

Disk \$195.00 (US)

Availability:

Ingram

Perfect Link

Uses pop-up menus to simplify log-on to commercial data services. Offers automatic installation for various modems, terminal emulation, ability to customize function keys, etc. Reads and writes various disk formats. Apple II version \$109 US.

Publisher: Format:

Thorn EMI Disk

\$129.00 (US) Price: Availability: Ingram

PFS: Access

Easy to use communications package, featuring data encryption, automatic dial up and log on to frequently used services, text file upload/download, etc. Supports both 300 and 1200 baud transmission. Apple //e version \$75.00

Publisher:

Software Publishing

Format: Disk

\$140.00 (US) Price:

Availability: Ingram

Terminus III

Communications accessory to Word Juggler IIe. Sends files, Word Juggler documents in memory, allows predefinition of up to 15 logon protocols, each with up to 26 keyboard macros, auto dial. Baud rates 110 to 9600. Also for Apple //c, III. Ouark

Publisher: Format:

Disk

\$129.00 Price:

Availability: McKenzie Brown Canada

VisiTerm

Comprehensive communications system, allows downloading to disk, file transfers, terminal emulation, etc.

Publisher: Format:

VisiCorp

Price:

Disk

Availabili ty:

Ingram

RECREATION **ACTION GAMES**

Ballblazer

Unique 3-D action game, uses horizontally split screen to show action for two players. Propel a ball around a grid playing field in soccer-like action. Designed by Lucasfilm Games

Publisher: Format:

Disk

Price: Availability: \$40.00 (US) Ingram

Beyond Castle Wolfenstein

Sequel to ever-popular Castle Wolfenstein action-adventure. Having escaped from the Castle, our hero now has the chance to penetrate Hitler's bunker, bearing a dagger, a time bomb and bribe money. New features go beyond original strategy.

Publisher: Format:

Muse Disk \$34.95 (US)

Price:

Captain Goodnight

Players battle against the clock, fighting their way by land, sea and air towards Dr Maybe's hideout on Doom Island. Variety of game settings, play modes. Includes Mission Dossier and Secret Decoder

Publisher: Format:

Broderbund Disk

Price:

\$34.95 (US)

Availability: Beamscope, Ingram

Castle Wolfenstein

Excellent realtime adventure. The player must move from 'room' to 'room', gathering useful items and shooting it out with the stormtroopers. Top-notch graphics, sound, and speach effects. A game of strategy as well as of fast reactions.

Publisher: Format:

Muse Disk

\$29.95 (US)

Championship Lode Runner

Follow-up for masters of the original Lode Runner. Same game with new 50 maze-screens designed to test the ability of the speediest Runner. Complete in itself, but does not include game-builder option. Atari 800 version \$29.95

Publisher: Format:

Broderbund Disk

Price: Availability:

\$34.95 (US) Beamscope, Ingram

A classic arcade-type game. You fly the helicopter on a rescue mission behind enemy lines, land to rescue friendly troops. Tanks, jet fighters armed with missiles, and aerial mines will try to end your mission unless you shoot them

down. **Publisher:** Format: Price:

Availability:

Broderbund Disk \$34.95 (US)

Beamscope

Crossfire

Roving robot shoot out on a rectangular city grid. Move and shoot in four directions, try to avoid marauding alien insects. PC version on cartridge, for PCjr only.

Publisher:

Sierra On-Line Disk

Format: Price: Availability:

\$44.99 IBM

Cytron Masters

An army of mindless but deadly Cybernetic Electronic Devices is yours to command. Uses paddle controllers.

Publisher: Format:

Strategic Simulations Disk

Price:

\$19.98 (US) Ingram

Availability:

Dr J & Larry Bird Go One-on-One

Graphic simulation of one-on-one basketball match. Take either defence or offence. Numerous play options available under menu control. Amiga version \$49.95.

Publisher: Format:

Electronic Arts

Price:

Disk \$44.95

Availability:

Beamscope, Ingram, Radio Shack

Maneuver a little spaceman across three levels connected by trapdoors. Evade scorpions, trolls, mad medicine man. Rescue a little boy and girl and return them to their mother. Great action, incredibly cute graphics. Atari version

Publisher: Format:

Broderbund Disk

Price: Availability:

\$44.95 Beamscope, Ingram

Eidolon, The

Adventure-type scenario in which players do battle with mystical creatures. Designed by Lucasfilm Games.

Publisher: Format:

Epvx Disk

Price: Availability: \$40.00 (US) Ingram

F-15 Strike Eagle

Fly an F-15 fighter on simulated missions in the middle east. Use out of the cockpit 3D view and a HUD (Heads Up Display) to track air and ground targets. Includes multiple combat scenarios.

Publisher: Format:

MicroProse Disk

Price: **Availability:**

\$34.95 (US) Ingram

Domination by tactical conquest and fortification is the key to a simple yet challenging game.

Publisher: Format:

Strategic Simulations Disk

\$17.48 (US) Price: Availability: Ingram

Garry Kitchen's GameMaker

Allows user to create animation, design player shapes, draw playing fields, etc. Creates working arcade-style game

Publisher: Format:

Activision Disk

Price: Availability: \$69.95 Beamscope, Ingram

Software

Jumpman

You control the little Jumpman. Climb ladders, jump across gaps and over dangerous moving obstacles. Includes huge variety of screens, each with different enemy attackers. Play at beginner, intermediate or advanced

Publisher: Format:

\$49.99

Price: Availability:

IBM, Beamscope

Karateka

Suspenseful movie-like story, smooth and realistic animation. Action strategy game involving karate fighting. Player is in control of timing, placement of kicks, thrusts, jabs. C-64 or Atari 800 versions \$29.95 US.

Publisher: Format:

Broderbund Disk

Price: Availability:

\$34.95 (US) Beamscope, Ingram

Lode Runner

Simple but strategic chase game. Manoever a little man around many levels of brick platforms, up and down ladders, etc. Recover all the treasures before the enemy gets you. Screen-builder utility built-in. Macintosh version \$39 95 US

Publisher: Format:

Price:

Broderbund Disk \$39.95

Availability: Beamscope, Ingram, Radio Shack

Minit Man

Two games in one. Trains bearing missiles must cross a gorge to reach your siloes. Rebuild the bridge while stopping enemy robots from sabotaging your launch computer.

Publisher:

Penguin/Polarware

Format: Price:

Disk \$8.95 (US)

Night Mission Pinball

Meticulous pin-ball simulation. Offers flexible options such as variable speed, tilt sensitivity, sounds, scoring. C-64 version \$29.95 US. IBM version \$39.95 US.

Publisher: Format: Price:

Sublogic Disk \$34.95 (US) Ingram

Availability:

Try to reach the top of an 8x8 checkerboard grid, while avoiding 10 types of opposing pieces, each of which moves in a distinct pattern relative to your own moves. Nine levels plus 2-player game. IBM version \$27.50.

Publisher:

Penguin/Polarware

Format: Price: \$8.95 (US)

Pie Man

Work your way up from baker's apprentice to head baker As the pies come out of the oven you put whipped cream and a cherry on them. Beware of grease spots, flour sacks, and the slightly tipsy wedding-cake baker.

Publisher:

Penguin/Polarware

Format: Price:

Disk \$8.95 (US) **Pinball Construction Set**

Bill Budge's classic creative game-builder. Moving an onscreen pointer with the joystick the user can assemble various stock components such as bumpers, targets, and obstacles into a working pinball game. Games can be

Publisher: Format:

Electronic Arts Disk

\$44.95 Price:

Availability: Beamscope, Ingram, Radio Shack

Quest for Tires

As the cartoon caveman BC, the player rides his wheel past various obstacles. Jump over rocks, pits, duck to avoid overhanging limbs, etc. Simple game features surprisingly accurate rendition of the comic-strip characters. 30

Publisher:

Sydney Development, Sierra On-

\$44.95 Availability: Radio Shack

Disk

Rescue Raiders

Action helicopter attack game, requiring strategic planning combined with fast reflexes and a grasp of tactics Maneuver tanks, troops, artillery, across horizontal-scrolling field. Blow up enemy time machine before they get

Publisher: Format:

Sir-Tech Disk \$34.95 (US)

Price: Availability:

Ingram

Search four levels of 32 rooms, avoiding traps, Robo-Droids, Whirling Drones, and Snap Jumpers. Find the elusive Shadow

Publisher: Format: Price:

Broderbund Disk \$39.95

Availability: IBM, Beamscope, Radio Shack

Sierra Championship Boxing

Set up your boxer's stats: height, weight, reach, etc. Then match him against champs like Ali, Frazier, Tunney. Determine strategy, or go head to head. Graphic display gives you a ringside seat. C-64 version \$24.95 US. Mac version \$39.95

Publisher:

Sierra On-Line

Format: Price:

Disk \$34.95 (US)

Availability:

Ingram

Flying battle game. Pilot a fighter, view enemies and terrain in perspective display. Destroy enemy targets on the ground and in the air. C-64 version \$32.95 US.

Publisher: Format:

Electronic Arts Disk \$39.95 (US)

Price:

Availability: Beamscope, Ingram

Star Maze

Maneuver a spaceship through a series of sixteen complex, multi-colored mazes, recover nine 'power jewels' in each maze, dock for extra fuel. Features horizontal and vertical scroll. Award-winner from Canadian programmer Gordon Eastman.

Publisher: Format:

Sir-Tech Disk \$34.95 (US)

Price:

Stellar 7

Maneuver a tank-like vehicle over several planetary landscapes, do battle with intelligent enemy vehicles. Find warp link stations to change planets, fuel bays to power up. Unbelievable 3-D line graphics, many levels of involving

Publisher:

Penguin/Polarware

Format: Price:

Price:

Disk

\$12.95 (US)

Summer Games II

Sequel to original Summer Games, offers still more Olympic events in animated simulation.

Publisher: Format:

Epyx Disk \$40.00 (US)

Availability: Ingram

Winter Games

Seven different winter sporting events. Uses split screen displays to show overview, first-person view and scores.

Publisher: Format: Price: Availability: Ерух Disk \$40.00 (US)

Ingram

ADVENTURE GAMES

Adventure Master

Users are helped to design their own text adventure games, describe up to 60 locations, plan events, create secret exits, hide objects, etc. Includes graphic capabilities, editing, and one complete adventure

Publisher: Format:

CBS Software Disk

Price:

\$24.95 (US) Ingram

Availability:

Alcazar, The Forgotten Fortress

Search a mystical countryside, ancient castles, try to reach the fortress of Alcazar.

Publisher: Format:

Activision Disk

Price:

\$29.95 (US) Availability: Ingram

Black Cauldron, The

Graphic adventure based on the animated Walt Disney movie of the same name. Uses color graphics, animated characters, etc. Joystick or keyboard control, multiple solutions and variable scoring

Publisher: Format:

Sierra On-Line Disk \$39.95 (US)

Price: Availability:

Borrowed Time

Play the part of Sam Harlow, private eye in the thirties. Find out who's trying to kill you, collect evidence. Uses keyboard commands, function keys and mouse. Animated illustrations. A two-disk set.

Publisher: Format:

Activision Disk

STari

Price: \$59.95 Availability:

Beamscope, Ingram

Software

Brimstone

Sir Gawain quests to escape the chaotic underworld of Ultro with the five Mystical Words. Electronic Novel text adventure, includes hardbound manual. Atari and C-64 versions \$39.95 US. Atari needs 2 disk drives.

Publisher: Broderbund Format: Disk Price: \$44.95 (US) Availability: Beamscope, Ingram

Coveted Mirror, The

Animated graphic adventure includes skill and action games that help with the solution. You must escape the prison of the evil king Voar and find the five pieces of the magic mirror. Apple & C-64 versions \$17.95 US, Amiga \$29.95 US.

Publisher: Penguin/Polarware

Format: Disk Price: \$19.95 (US) Availability: Ingram

Crimson Crown, The

Graphic/text adventure. You are a lone hero wandering a nightmare kingdom, exploring caverns and castles, finding magic objects and solving riddles.

Publisher: Penguin/Polarware Format: Disk \$19.95 (US) Price: Availability: Ingram

Crypt of Medea

Combination text/graphic adventure with a spooky setting. Escape from the crypt, if you can. Accepts multi-word commands. Includes hint sheet. Supports Mockingboard. Not recommended for the very young or squeamish.

Publisher: Sir-Tech Format: Disk \$34.95 (US) Price:

Cutthroats

You are the chief diver at a backwater island, working for some shady characters. Try to recover sunken treasure. Pure text, with sophisticated Infocom command parser. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom Format: Disk Price: \$39.95 (US) Availability: Ingram, Radio Shack

Deadline

Highly sophisticated interactive text adventure. You have 12 hours to find the murderer who lurks within the Robner household. Search rooms, interview suspects, find clues. An incredible logic puzzle. C-64 and Atari XL versions \$44.95 US.

Publisher: Infocom Format: Disk Price: \$49.95 (US) Availability: Ingram

Empire I: World Builders

Experience the worlds of the Empire through the unique characters that inhabit it. Store characters on disk for future adventures. High-res display of landscapes, plus a paperback history of the Empire.

Publisher: Peachtree Format: Disk \$32.95 (US) Price: Availability: Ingram

Empire II: Interstellar Sharks

Play the part of a pilot, businessperson, or diplomat. Pursue wealth while dodging beaurocratic snares. Outfit your spacecraft to take you to your final destination. Set 1200 years after Empire I.

Publisher: Peachtree Format: Disk Price: \$32.95 (US)

Empire III: Armageddon

Final episode in the Empire trilogy. Survive long enough to find the Empress and destroy the Empire. Defy the snares of the City, the tenements, the Arena, brave the Wilderness and the depths of the Pyramid. Hi-res graphics, animation.

Publisher: Peachtree Format: Disk \$32.95 (US) Price: Availability: Ingram

Enchanter

First in a trilogy, a successor to the popular Zork series of pure text adventures. You must enter the Castle of the Enchanter, collect spells, and eventually outsmart the Evil Warlock. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom Format: Disk \$39.95 (US) Price: **Availability:** Ingram

Essex

Board the starship Essex as it races to save the one scientist capable of preventing the destruction of the universe. Unique Electronic Novel text adventure. Includes hardbound manual. C-64, Atari versions \$39.95 US. Atari needs 2 drives.

Publisher: Broderbund Format: Disk \$44.95 (US) Price: Availability: Beamscope, Ingram

Ghostbusters, The Computer Game

You start your own Ghostbuster franchis, equip your team, search for the temple of Zuul in order to save the city. Based on the movie. Price varies depending on system.

Publisher: Activision Format: Disk \$39.95 (US) Price: Availability: Ingram

Hacker

Break into the computer network of Magma Ltd, try to run a remote-controlled subterranean laser, travel around the world to track down stolen pieces of The Magma Project document, negotiate with spies, etc.

Publisher: Activision Format: Disk Price: \$59.95

Availability: Beamscope, Ingram

Hitchhiker's Guide to the Galaxy

Ideosyncratic adaptation of the hilarious British radio/TV series. Follow Arthur Dent on a bizarre excursion through the universe following the destruction of Earth to make way for a hyperspace bypass. Pure text. C-64, Atari XL \$34.95 US.

Publisher: Infocom Format: \$39.95 (US) Price: Availability: Ingram

Hulk, The

Text/graphic adventure based on the popular Marvel Com-

ics character.

Publisher: Adventure International Format: Disk

\$29.97 (US) Price: Availability: Ingram

Infidel

Working on an archaeological dig in the desert, you have unwisely annoyed your Arab workforce, who abandon you. Alone you must find the lost pyramid, decipher its mysteries, and escape with its treasure. Pure text. C-64, Atari XL \$39.95 US

Publisher: Infocom Format: Disk Price: \$44.95 (US) Availability: Ingram

King's Quest

An adventurous world of three-dimensional graphics, sound, animated characters. Guide Sir Graham on his quest. Different mysteries and obstacles with each session.

Publisher: Sierra On-Line Format: \$49.95

Availability: IBM, Ingram, Radio Shack

King's Quest II — Romancing the Throne

New generation of graphic adventures features animated characters guided by keyboard, joystick or full sentences. Fairy tale story has multiple solutions, scored according to cleverness, permits multiple playings. MS-DOS version \$49.95.

Publisher: Sierra On-Line Format: Disk Price: \$69.95

Availability: Ingram, Radio Shack, STari

Mask of the Sun

Combination graphic/text adventure. You land in the Mexican jungle, and drive off in search of the fabled Mask. Search several Aztec pyramids filled with various deadly dangers and the occasional useful item. Some semi-animated sequences

Publisher: Broderbund Format: Disk \$39.95 (US) Price: Availability: Beamscope

Merry Canned Nightmares and Dreams

You must visit characters including a child, a farmer, a wizard, a peddler and a vulture. Accumulate fame, knowledge, wealth and happiness points. But try not to let the evil spiders get loose, or the game may be scrambled. For 2-4 players.

Publisher: Peachtree Format: Disk \$29.95 (US) Price: Availability: Ingram

Mindshadow

You are an amnesiac, travelling across a mysterious island, avoiding perils in swamp, jungle and cave while in search of your identity. A strange bird, the Condor, helps you along.

Publisher: Activision Format: Disk Price: \$59.95

Availability: Beamscope, Ingram

Software

Mindwheel

Take a trip through four minds: rock star, dictator, poet and scientist. Search out the Cave Master and the Wheel of Wisdom. Unique text adventure in the Electronic Novels series. Atari and C-64 \$39.95. Atari version needs 2 disk

Publisher: Broderbund
Format: Disk
Price: \$44.95 (US)
Availability: Beamscope, Ingram

Mist, The

Pure-text adventure by horror novelist Stephen King. A man-eating fog has invaded the seaside town of Bridgton. Find your missing son, avoid crazed mobs, deadly creatures, etc. Find the secret of dispelling The Mist.

Publisher: Mindscape
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Oo-Topos

Science-fiction adventure. Features text and graphics.

Publisher: Penguin/Polarware
Format: Disk
Price: \$19.95 (US)
Availability: Ingram

Planetfall

You are freed of the overbearing presence of Ensign Blather when your starship suddenly explodes. You must survive on a strange and hostile world, aided only by Floyd, the somewhat demented robot. Pure text. C-64, Atari XL \$34.95 US.

Publisher: Infocom
Format: Disk
Price: \$39.95 (US)

Availability: Ingram, Radio Shack

Prisoner 2

You are incarcerated on The Island, a pleasantly-landscaped but deceptive little Town shown in hi-res. Each of 20 buildings offers a unique excursion into paranoia and paradox. Solve the riddle within the riddles and escape if you can . . .

Publisher: Peachtree
Format: Disk
Price: \$32.95 (US)
Availability: Ingram

Quest, The

As King Galt's newest advisor you must accompany his champion, Gorn, on a quest to rid the kingdom of a dragon. Over 200 locations, accepts multi-sentence instructions. Many alternate solutions. Text + graphics, two sides of a disk.

Publisher: Penguin/Polarware
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

SAGA #2: Pirate Adventure

You start out in an apartment, but must find your way magically to the treasure island. Seek out pirate treasure. One of the original Scott Adams adventures, enhanced with graphics.

Publisher: Format:

Adventure International Disk

Format:
Price:
Availability:

\$39.95 (US) Ingram

SAGA #3: Secret Mission

Your mission . . . should you choose to accept it . . . is to defuse a bomb planted in a nuclear reactor, before time runs out. Many ingenious puzzles to solve. One of the original Scott Adams text adventures, enhanced with graphics.

Publisher: Adventure International
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

SAGA #4: Voodoo Castle

Try to outwit the forces of evil that lurk in the dungeons. Find hidden articles, treasures. Be prepared for shocking surprises! One of the original Scott Adams adventures, enhanced with graphics. Also pure text for Atari, \$19.95

Publisher: Adventure International Format: Disk Price: \$39.95 (US) Availability: Ingram

SAGA #5: The Count

Try to destroy the evil vampire before he turns you into one of the undead. One of the original Scott Adams text adventures, enhanced with graphics.

Publisher: Adventure International Format: Disk Price: \$39.95 (US) Availability: Ingram

SAGA #6: Strange Odyssey

One of the most ingenious of the original Scott Adams adventures. Your spacecraft is disabled on a tiny planetoid. Use ancient alien artifacts to escape. With graphics on Apple, Atari. Original text version on Atari tape, \$29.95

Publisher:

Adventure International

Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Sands of Egypt

Unique graphics show scrolling perspective as you wander around the desert, find useful items, and finally penetrate into the hidden tomb.

Publisher: Datasoft Format: Disk Price: \$39.95

Availability: Beamscope, Radio Shack

Seastalker

Junior-level adventure is a challenge for all ages. Command a submarine on a dangerous mission. Pure text. C-64 and Atari XL versions \$34.95 US.

Publisher: Infocom
Format: Disk
Price: \$39.95 (US)
Availability: Ingram

Serpent's Star

Continues the adventures begun in the Mask of the Sun. Travel to the perilous peaks of Tibet in search of a fabulous gem, the Serpent's Star. Graphics, animation, text.

Publisher: Broderbund
Format: Disk
Price: \$39.95 (US)
Availability: Beamscope

Seven Cities of Gold

Role playing adventure based on the conquest of the new world. Discover the coastline, Caribbean islands. Land, explore, trade with the natives. Try to find a strategy for building a strong colony. C-64 and Atari version \$32.95

Publisher: Electronic Arts
Format: Disk
Price: \$39.95 (US)
Availability: Beamscope, Ingram

Sorcerer

Sequel to the Enchanter, and second in text adventure trilogy. Once again you are the novice wizard, now ensconced in the wizards' guild hall. Try to solve the mystery of the missing master wizard. C-64 and Atari XL versions \$39.95 US.

Format: Infocom
Format: Disk
Price: \$44.95 (US)
Availability: Ingram

Spellbreaker

Journey through magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$44.95 US.

Publisher: Infocom
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Spiderman

Text/graphic adventure based on the popular Marvel comics character.

Publisher: Adventure International Format: Disk Price: \$29.95 (US) Availability: Ingram

Starcross

In the year 2186 you must pilot your starship, rendezvous with a gargantuan ship from another galaxy, and solve incredible alien puzzles. Pure text. Atari XL and C-64 versions \$44.95 US.

Publisher: Infocom
Format: Disk
Price: \$49.95 (US)
Availability: Ingram

Suspect

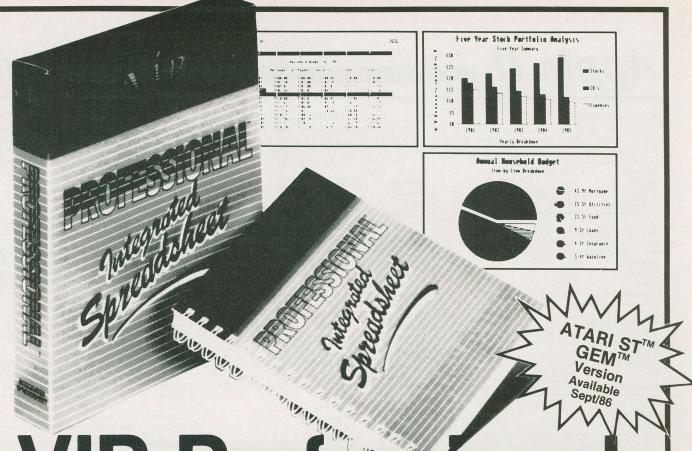
Murder mystery adventure. Pure text. C-64 and Atari XL versions \$39.95.

Publisher: Infocom
Format: Disk
Price: \$44.95 (US)
Availability: Ingram

Suspended

Unique combination of text adventure, board game, and simulation. You brain is connected to the Underground Complex. Using only your six peripheral robots you must minimize casualties by properly administering life support systems.

Publisher: Infocom
Format: Disk
Price: \$49.95 (US)
Availability: Ingram



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Software

Sword of Kadash

Control your character in real time as you explore a dragon's castle to find the magical Sword of Kadash. Each of over 200 screens has its own puzzles, secret doors, creatures, and tricks. Use weapons, shields, spells.

Publisher: Penguin/Polarware

Format: Disk \$17.95 (US) Price: Availability: Ingram

Temple of Apshai Trilogy

Interactive adventure. Journey through a maze of over 200 rooms, filled with monsters and treasures.

Publisher: EDVX Format: Disk \$49.95 Price:

Availability: Beamscope, Ingram

Tracer Sanction, The

Text/graphic adventure. Your mission is to track down a deadly interstellar criminal. C-64 version \$29.95 US.

Activision Format: \$39.95 (US) Price:

Availability: Ingram

Transylvania

Popular graphics adventure has player fending off werewolves, vampires while in search of endangered Princess Sabrina. Available in double Hi-Res for Apple //e. IBM, ST, Macintosh version \$19.95 US. Amiga \$29.95

Publisher: Penguin/Polarware

Format: \$17.95 (US) Price: Availability: Ingram

Usurper - The Mines of Qyntarr

Travel through magical underground kingdom, search for the lost Orb of Qyntarr, then locate invisible castle and kill the evil king. Play for high score or minimum moves. Over 190 areas. Text adventure, parser understands words, paragraphs.

Publisher: Format:

Sir-Tech Disk \$42.95 (US)

Wishbringer

Price:

Journey through a magical world, solve puzzles. Pure text. C-64 and Atari XL versions \$34.95 US

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram

Witness

Price:

In the pulp detective world of the thirties a case of blackmail turns to murder. You have 12 hours to untangle a web of clues, motives and alibis, supported by police file of physical evidence. Pure text. C-64 and Atari XL versions

Publisher: Format:

Infocom Disk \$39.95 (US)

Availability: Ingram, Radio Shack **Zork I: The Great Underground Empire**

Armed with sword and lantern you venture down into the lost subterranean kingdom of Frobozz. Slay troll, solve puzzles, find treasures, evade the villanous thief. Pure text. Two sequels. TRS-80 version \$19.95. Atari XL and C-64 \$34 95 US

Publisher: Infocom Format: Disk \$39.95 (US) Price: Availability: Ingram, Radio Shack

Zork II: The Wizard of Frobozz

Discover a previously hidden section of the Underground Empire. Meet the Wizard, solve puzzles. Sequel to Zork I, but can be played on its own. Pure text. C-64 and Atari XL versions \$39.95 US

Publisher: Infocom Format: Disk \$44.95 (US) Price: Availability: Ingram

Zork III: The Dungeon Master

Culmination of the Zork trilogy. You encounter the Dungeon Master himself, and your destiny hangs in the balance. Pure text. Atari XL and C-64 versions \$39.95

Publisher: Format:

Infocom Disk \$44.95 (US) Price: Availability: Ingram

ROLE-PLAYING GAMES

50 Mission Crush

Role-playing simulation makes you the pilot of a B-17 Flying Fortress. Try to survive 50 raids over France and Germany, try to advance from Lieutenant to Brigadier General. Introductory level of difficulty.

Publisher: Strategic Simulations

Format: Disk \$39.95 (US) Price: Availability: Ingram

Alter Ego

Lets you experiment with 'what-if', presents hundreds of life situations, tracks your development through 7 life stages from infancy through the golden years. Become an executive, a rock star, a bum, etc. Male and female versions.

Publisher: Activision Format: Disk \$49.95 (US) Price: Availability: Ingram

Autoduel

Futuristic, fast-paced strategy role-playing game, where

the right of way goes to the biggest guns. Publisher: Origin Systems

Format: Disk Price: \$50.00 (US) Bard's Tale, The

The evil wizard Mangar has cast an eternal winter spell. The Bard sets out with band of followers to fight monsters, open secret doors, vanquish evil. Color scrolling dungeons, 128 monsters, animation, status displays, spells,

Publisher: Electronic Arts Disk Format: \$44.95 (US) Price: Availability: Ingram

Expedition Amazon

A "light-hearted" role-playing fantasy. An expedition of four specialist characters goes up the Peruvian jungle in search of the lost city of KA. Features both jungle and underground adventure, nine levels of difficulty, high-res

graphics. Publisher: Penguin/Polarware

Format: Disk \$12 95 Price:

Galactic Gladiators

You are caught in the middle of a cosmic shootout among 14 bizarre alien species. Continued in Galactic Gladiators.

Publisher: Strategic Simulations

Format: Disk \$19.98 (US) Price: Availability: Ingram

Gemstone Warrior

The Gemstone, source of all good, has been stolen by inhabitants of the Netherworld and split into 5 parts. Fight through labyrinths, return the stone to the temple altar. Realtime action, graphics, weapons, magic. Introductory level.

Publisher: Strategic Simulations

Format: Disk \$34.95 (US) Price: Availability: Ingram

Moebius

Journey through the elemental planes of a colorful oriental world of fantasy and adventure, in search of the Orb of Celestial Harmony

Publisher: Origin Systems Format: Disk Price: \$60.00 (US)

Omnitrend's Universe

Adventure role-playing simulation divided into 3 sections: Construction, Flight and Starport. Get a loan, outfit your spacecraft, hire crew, travel from planet to planet, fight raiders, mine ores, conduct trade. Highly detailed, multi-

Publisher: Omnitrend Software Format: Disk

\$98.50 (US) Price:

Omnitrend's Universe II

Travel among 47 detailed planets, battle intelligent enemy ships, maintain complex crew characters and ships systems. Uses text parser for planetside interactions, graphics for space battles. Pull down menus, etc simplify use.

Publisher: Omnitrend Format: Disk Price: \$105.00 Availability: STari

Software

Operation Overlord

Operational/lower strategic level look at first 11 weeks of Allied invasion of Europe. Allies may pick from all potential landing zones. Situation maps and marker sets included for both sides. Computer plays either side.

Publisher: Format:

Simulations Canada

Price:

\$60.00

Phantasie

Command up to 6 characters as they search a magic world for the Nine Rings. Introductory level of difficulty. ST version scheduled for April.

Publisher:

Strategic Simulations

Format:

Disk \$39.95 (US)

Price: Availability:

Ingram

Phantasie II

Sequel to popular Phantasie. Search for the evil orb, remove the curse from an island kingdom. Create a party of up to six characters, re-use characters from part I. Map terrain, solve puzzles, learn spells, etc. Introductory level of play

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability: Ingram

Ouestron

You must battle hordes of monsters as you seek to destroy the evil wizard. C-64 version \$39.95 US.

Publisher:

Strategic Simulations

Format:

Disk

Price: Availability:

\$49.95 (US) Ingram

Rings of Zilfin

Retrieve the magical rings and defeat Lord Dragos. Use arrows, sword, develop magical abilities. Realistic 3-D scrolling graphics based on Penguin's Graphics Magician software. Introductory level of difficulty

Publisher:

Strategic Simulations

Format:

Disk \$39.95 (US)

Price: Availability:

Ingram

Sundog, The Frozen Legacy

Combines graphics, action and problem-solving. Uses 'zoom action' display. Move around plan-view map, then zoom in on specific areas to interact with detailed environment, interact with characters, etc. Travel from planet to planet

Publisher:

FTL Games

Format:

Disk

Price:

\$39.95 (US)

Ultima II

Classic second chapter in the Ultima series pits you against Mondain's apprentice, Minax. Travel across scrolling display of earth in seven different time periods, and finally explore strange planets in space. ST version \$79.95 Canadian.

Publisher:

Sierra On-Line

Format: Disk Price: \$29.95 (US)

Availability:

Ingram, STari

Third in the splendid Ultima series of role playing adventures. This edition has all the features of Ultima II, but allows a party of up to four adventurers to journey together. Each character has distinct attributes. C-64, Atari

Publisher:

Ultima III

Origin Systems

Format: Price:

Disk \$59.95 (US)

Availability: Ingram

Ultima IV

Sixteen times larger than Ultima III. Enter Brittania, kingdom of Lord British. Journey through infinite terrain, converse with characters on hundreds of topics, unravel the mysteries of a superior magic system. Beware of demons, dragons.

Publisher: Format:

Origin Systems

Price:

Disk

\$60.00 (US)

Wizard's Crown

Recover the Crown from behind spell-woven walls in the shattered ruins of Arghan. Create eight characters, search for clues and weapons among the maze of streets, buildings and dungeons. Intermediate level of play.

\$39.95 (US)

Disk

Publisher:

Strategic Simulations

Format:

Price:

Availability: Ingram

Wizardry - Knight of Diamonds

First sequel to role-playing game Wizardry. Player re-use thirteenth level characters from the earlier scenario. Text and 3-D graphics. Party of mixed adventurers seeks armor and other treasure in 6-level maze. Available in French.

Publisher:

Sir-Tech Disk

Format: Price:

\$34.95 (US) Availability: Ingram

Wizardry - Legacy of Llylgamyn

Concluding chapter of Wizardry trilogy. Text, 3-D graphics, "Windo-Wizardry" pop-up displays. Characters created in first scenario, advanced in second, must seek orb guarded by dragon, hidden in 6-level maze. Available in French.

Publisher: Format:

Sir-Tech Disk

\$39.95 (US) Price:

Availability:

Ingram

Wizardry — Proving Grounds

Highly-acclaimed role-playing game. Player(s) lead party of adventurers into "The Proving Grounds of the Mad Overlord". Graphics, text display shows ten-level maze, monsters, treasures. Apple II version \$49.95 US. Available in French.

Publisher: Format:

Sir-Tech

Price:

Disk

\$59.95 (US) Availability: Ingram

Wiziprint

Character-statistics utility for use with Wizardry scenarios. Prints out character posessions, known spells, attributes, etc. Supports most printers and interface cards, compatible with all 3 Wizardry scenarios.

Publisher:

Sir-Tech

Format: Price:

Disk

\$24.95 (US) Availability: Ingram

Six scenarios linked into a larger game, including variety of spells, weapons and creatures as you draw closer to a showdown with Xyphus, the Demon Lord. Allows team action, or each of four players acting alone. Macintosh \$19.95 US.

Publisher:

Xvphus

Penguin/Polarware

Format:

Price: Availability: \$17.95 (US) Ingram

SIMULATION GAMES

305 Computer Baseball Teams

Five-disk set features every division and pennant winning team from 1900 to 1979 in format compatible with Strategic Simulations' Computer Baseball game. Price is for complete set, individual disks available also.

Publisher:

CB Enterprises

Format: Price:

\$60.00 (US)

Air Nav Workshop

Training tool for flight instructor or student. Customize with any combination of winds, time scale, radio navigational aids, starting position. Displays ground track map, instruments, uses sound to simulate station ID signals.

Publisher:

Space-Time Associates

Format: Price:

\$40.00 (US)

Ancient Art of War, The

Accurate, detailed simulation of military strategy and tactics through the ages. Plan camplaigns, choose troops, direct battles, zoom in to engage in close-up animated conflict. Game generator included. Apple II version \$39.95 US.

Publisher: Format:

Broderbund

Price: Availability: \$44.95 (US) Beamscope, Ingram

Archon Unique variant on traditional chess, with odd creatures occupying squares that range through various shades rather than just black and white. Role-playing type conflict settles attacks of one piece on another. Graphic display of the field.

Electronic Arts

Publisher: Format:

Price: \$49.95 Availability: Beamscope, Ingram

Archon II: Battle of the Mages Sequel to original Archon chess-type game, based on similar combination of chess-board strategy and role play-

ing action. Publisher:

Electronic Arts Disk

Format: Price:

\$39.95 (US)

Beamscope, Ingram

Software

Baltic 1985

West Germans invade East Germany in an attempt to free West Berlin. Completes the Superpowers series started in Germany 1985, RDF 1985.

Publisher: Format:

Strategic Simulations Disk

Price: Availability:

\$34.95 (US) Ingram

Raron

Speculate in real estate, keep an eye on mortgage rates national and international events, etc. Start with \$35,000 and try to parlay it into a million in 52 game-weeks. C-64 version \$29.95 US, Apple II version \$49.95 US.

Publisher: Format:

Blue Chip Disk \$59.95 (US)

Price: Availability:

Ingram

Battalion Commander

Direct a modern US. Soviet or Chinese armored battalion against the computer, in realtime action. Introductory level of difficulty.

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability: Ingram

Battle for Normandy

Recreates the massive Allied invasion of northern France in June 1944. Intermediate level of complexity.

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability:

Ingram

Battle of Antietam

Grand-tactical recreation of the Civil War's bloodiest day. Includes introductory, intermediate and advanced level play

Publisher:

Strategic Simulations

Format: Price:

Disk \$49.95 (US)

Availability:

Ingram

Battle of the Atlantic

Strategic game of the ocean lifeline extended from North America to England and Russia during WWII. As the Allied player you must keep shipping lanes open. As the Axis, you deploy air, surface, and submarine forces to disrupt shipping.

Publisher:

Simulations Canada Disk

Format: Price:

\$60.00

Battlegroup

Western-Front counterpart to SSI's Kampfgruppe game, recreates armored combat in WW-II. Most all land weapons used by Germany, the US and Britain from 43-45 are included. Advanced level. Head-to-head, or computer can play either side.

Publisher:

Strategic Simulations

Format: Price:

Disk \$59.95 (US)

Availability:

Ingram

Breakthrough in the Ardennes

Regimental/brigade level depiction of the Battle of the Bulge. Covers the battle in twelve turns, each representing one day. Includes supply, air strikes, construction, destruction of bridges, fortifications. Computer directs allied

Publisher:

Strategic Simulations

Format: Price: Availability: Disk \$59.95 (US) Ingram

Bridge 4.0

Popular simulation of the card game. ST version uses full graphics and mouse, works with both color and mono-

chrome display Publisher:

Format: Price: Availability:

Disk \$29.95 (US) Ingram

Artworx

Broadsides

Command an 18th century warship, do battle on the high seas in a combination of arcade graphics and wargame strategy. Introductory level of difficulty.

Publisher: Format:

Strategic Simulations Disk

Price:

\$39.95 (US) Ingram

Availability:

Carrier Force

Four classic carrier battles in the Pacific during World War II. Includes tactical simulations of Midway, Santa Cruz, Eastern Solomons, and the Coral Sea

Publisher:

Strategic Simulations

Format: Price: Availability: Disk \$59.95 (US) Ingram

Cartels & Cutthroats

Run your own megabucks corporation in the economic jungle of Big Business. For up to 6 players.

Publisher: Format:

Strategic Simulations

Price:

Disk

Availability:

\$39.95 (US) Ingram

Charles Goren: Learning Bridge Made Easy

Teaches both bidding and play. Quizzes, evaluations, explanations clarify topics such as hand evaluation, opening bids, responses, rebids. Randomly generated hands plus 100 selected hands. Play declarer or defense, increasing

difficulty. Publisher: Format: Price:

CBS Software

Disk \$79.95 (US) Ingram

Availability:

Chess 7.0

Plays a mean game of chess, and includes a wealth of user friendly options. Suggests best move, allows setting up of any game situation, saves games, etc. Menu operated.

Publisher: Format:

Odesta Disk \$69.95 (US) Ingram

Price: Availability:

> See Almost Free Software for the Apple in Software Catalogue - page 81.

Colonial Conquest

Easy-to-play game of world domination based on turn-ofthe-century politics. Up to 6 human players, computer plays unfilled roles. Players are in charge of a country, collect taxes, use money for espionage, subversion, arma-

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability: Ingram

Computer Ambush

Lets you wage World War II man to man combat. Advanced play, for avid gamers

Publisher: Strategic Simulations Format:

Disk \$59.95 (US)

Price:

Availability: Ingram

Computer Baseball

Create and manage any team you like in strategy simulation of the popular sport. Teams Data disks with Statistics Compiler available for 1980 through 1984, \$15 each (not all years for all systems).

Publisher: Format:

Strategic Simulations Disk

Price:

\$39.95 (US)

Availability: Ingram

Computer Bismarck An intermediate level tactical simulation of the attempt by British ships and aircraft to rid the North Atlantic of the Nazi battleship Bismarck.

Publisher:

Strategic Simulations

Format: Price:

Disk \$59.95 (US)

Availability: Ingram

Computer Quarterback

Real-time simulation of semipro and NFL football. Uses paddle controllers. NFL Teams Data disks with player stats available for years 1980 through 1984 (Apple only, C-64 from 1983), \$15 each.

Publisher: Format:

Strategic Simulations Disk

Price: \$39.95 (US) Availability: Ingram

Conflict in Vietnam Historically-accurate combat simulation of the Vietnam war, starting from the earliest French involvement and proceeding right up to the present.

Publisher: Format: Price: Availability: MicroProse. Disk \$39.95 (US) Ingram

Cosmic Balance

Lets you command a star fleet, design and build your own starships. Shipyard Data Disk with over 20 ships from design contest available from Computer Gaming World,

\$15 US. Publisher:

Strategic Simulations Disk

Format: Price:

\$39.95 (US)

Availability: Ingram

Software

Cosmic Balance II

Sequel to original Cosmic Balance. A proving ground for Galactic emperors-to-be.

Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability:

Ingram

Crossword Magic

Allows user to create unique crossword puzzles, then use them over and over. Apple II version \$44.95 US.

Publisher: Format:

Mindscape Disk

Price: Availability: \$49.95 (US) Beamscope, Ingram

Crusade in Europe

Simulation of combat during World War II, at the time of the Battle of the Bulge.

Publisher: Format:

MicroProse Disk

Price: Availability: \$39.95 (US) Ingram

Decision in the Desert

Wartime combat simulation of North Africa in 1940-1942.

Publisher: Format:

MicroProse Disk

Price: Availability: \$39.95 (US) Ingram

Destroyer Escort

Authentic first-person simulation of destroyer service in World War II. Hunt down enemy subs using realistic control systems. C-64 version available this fall, others to follow shortly.

Publisher:

MicroProse

Format: Price:

Disk \$39.95 (US)

Fly biplanes such as the Sopwith Camel against such legends as the Red Baron in this World War I tactical recreation. Introductory level of complexity.

Publisher: Format:

Strategic Simulations

Price:

Disk

Availability:

\$39.95 (US) Ingram

Epidemic

Billions of lives are at stake as Earth is infected by deadly alien microbes. Extensive graphics.

Publisher:

Strategic Simulations

Format:

Disk

Price:

\$17.48 (US)

Availability:

Ingram

Strategic game of the campaign for France in the spring of 1940. Player commands Allied or German forces as the invasion of the West begins. Computer sends orders to armies and corps, displays intelligence and combat results.

Publisher: Format:

Simulations Canada

Price:

\$60.00

Disk

Successor to Murder by the Dozen, uses similar format. Up to four players or teams try to solve a dozen felony cases ranging from kidnapping to murder. Interrogate suspects, search locations, etc. Clues Notebook contains 700 clues

Publisher:

CBS Software Disk \$24.95 (US)

Ingram

Format:

Price: Availability:

Field of Fire

Retraces eight battles of Easy Company of the First Infantry Division. Direct units of six men each on a night raid in North Africa. Lead the storming of Omaha Beach on D-Day. Fight the Battle of the Bulge. Etc. Three difficulty levels

Publisher: Format:

Strategic Simulations

Disk \$39.95 (US)

Price: Availability:

Strategic level game of modern naval conflict in the Mediterranean Sea. Players command either NATO or Soviet forces, try to gain control of the sea.

Ingram

Publisher:

Simulations Canada

Format: Price:

Disk \$60.00

Fighter Command

Strategic-level depiction of the RAF battling the German Luftwaffe during the Battle of Britain.

Publisher: Strategic Simulations

Format:

\$59.95 (US) Ingram

Price: Availability:

Flight Simulator II

Real-time flight simulation puts you at the controls of a single-engine plane. Panoramic views and full instrumentation displayed onscreen. Includes accurate information for over 20 airports. Many options, including WW I fighter ace mode.

Publisher:

Sublogic

Ingram

Format: Disk \$49.95 (US) Price:

Availability:

Galactic Attack

Real-time strategic space war simulation. Travel to various planets, hold off enemy armies, transport in human armies to gain control, fight off Kzanta Star Marauders. Use Earth and Luna as supply depots. Adjustable difficulty.

Publisher: Format:

Sir-Tech

\$29.95 (US)

Galactic Magellan

Graphic cosmic adventure in which players create and explore unknown galaxies using stars they discover to help them complete their expeditions. Cooperative or competitive play.

Publisher: Format:

Krell Disk

\$39.95 (US)

WW II submarine simulation. Cruise the south seas, try to fulfill various missions, sinking Japanese ships along the way. Shows periscope/instrument display, radar, map views, damage reports, etc. C-64 version \$29.95. Mac version \$49.95 US

Publisher:

Spectrum Holobyte

Format: Price:

\$39.95 (US)

Availability:

Ingram

Geopolitique 1990

You play the US while the computer plays Russia in an economic, political, and military game of world domi-

Publisher:

Strategic Simulations

Format:

Price: \$39.95 (US) Availability: Ingram

Germany 1985

NATO forces must repel the Soviet invasion of West Germany. First in the Superpowers trilogy, followed by RDF 1985, Baltic 1985.

Publisher:

Strategic Simulations Disk

Format: \$59.95 (US) Price:

Availability: Ingram

Gettysburg: The Turning Point

Players keep track of individual artillery, men, ammunitions for each brigade unit. Revised command control rules allow determination of distance from leaders to their units, merging of units. For 1-2 players. IBM version due this

Publisher:

Price:

Strategic Simulations

Format:

Disk \$59.95 (US) Availability: Ingram

Grey Seas, Grey Skies Representation of modern naval combat at the tactical level. Computer takes the place of sensor and weapons systems of up to 10 vessels. Depicts surface ships, aircraft, and submarines.

Publisher:

Simulations Canada

Format:

Disk Price: \$60.00

Guadalcanal Campaign Monster-scaled computer wargame, simulating the great Pacific land/sea/air campaign of World War II. Intermediate complexity.

Publisher:

Strategic Simulations Disk

Format: Price:

\$59.95 (US) Availability: Ingram

Halley Project, The Learn astronomy while piloting your spacecraft around the solar system. Try to complete missions to each of the planets and return to your base on Halley's Comet. Navigate by constellation display. C-64, Atari versions \$29.95

Publisher: Format:

Price: Availability: \$49.95 Beamscope, Ingram

Software

Imperium Galactum

Design your own legion of starships ranging from explorers to battleships, each rated, monitored for damage and repairs. Try to add worlds to your empire by either diplomacy or force. Depicts 50 solar systems. For 1 to 4

players. Publisher:

Strategic Simulations

Format: Price: Availability: Disk \$39.95 (US) Ingram

Kampfgruppe

Top-selling tactical recreation of the Russian Front in WW-II. Advanced level of play. Scenario Disk #1 with five new scenarios, \$15 US.

Publisher:

Strategic Simulations

Format:

Disk

Price: Availability: \$59.95 (US) Ingram

Knights of the Desert

Joust with armored tanks during the North African campaign of 1941-1942. An intermediate level tactical

simulation. Publisher:

Strategic Simulations

Format: Price:

Disk \$39.95 (US)

Availability: Ingram

Mech Brigade

Simulation of armored warfare in the 1990s, based on the latest in weapons technology. Uses combat ratings of virtually all new US, German, English and Warsaw Pact weapons. Solitaire or head-to-head, 4 scenarios. Advanced level of play

Publisher: Strategic Simulations

Format: Price:

Disk \$59.95 (US) Availability: Ingram

Enter the New York Stock Exchange as a Novice with \$10,000, a range of 15 actual stocks from 5 industry categories as investment possibilities. Buy and sell based on news reports, manage your Portfolio. C-64 version \$29.95, Apple \$49.95 US

Publisher: Format:

Blue Chip Disk \$59.95 (US)

Price: Availability:

Ingram, Radio Shack

Mind Mirror

Electronic self-knowledge software designed by countryculture guru Dr Timothy Leary. User rates a concept on a series of seven-point scales. The program summarizes results as a 'Mind Map', offers 'Life Simulations' play.

Publisher: Format:

Electronic Arts Disk

Price:

\$34.95 (US)

Availability:

Beamscope, Ingram

Mystery Master: Murder by the Dozen

Starting with a map of Micropolis, sleuths must unravel a trail of concealed clues, false leads, clever deceptions. Numbered clues are detailed in accompanying Clue Book. Up to 4 players. Twelve cases, 700 clues.

Publisher: Format:

CBS Software

Price:

Disk \$24.95 (US)

Availability:

Ingram

Lead American, South Vietnamese and South Korean troops in jungle, underground and street fighting against computer-directed Viet Cong and Noth Vietnamese Army. Introductory level of difficulty.

Publisher:

Strategic Simulations

Format: Price: Availability:

\$39.95 (US) Ingram

Napoleon's Campaigns: 1813 & 1815

Disk

You become Napoleon as you re-enact his notorious campaigns at Leipzig and Waterloo.

Publisher: Strategic Simulations

Format: Price:

\$29.98 (US) Availability: Ingram

NATO Commander

As a NATO General you defend Europe in a real-time war simulation. Get radio, teletype messages from the front, maneuver your infantry, armor, helicopters, air force, nuclear weapons. Full continent scrolling map display.

Publisher: Format: Price:

MicroProse \$34.95 (US) Ingram

Availability:

North Atlantic '86

A tactical projection of giant scale air/land/naval battles in possible future Soviet-NATO confrontations. Intermedi-

Publisher:

Strategic Simulations

Format: Price:

\$59.95 (US) Availability: Ingram

Norway 1985

Last in the Superpowers series. With Societ armor frozen solid, guerilla counterattacks by NATO ski troops attempt to save Norway. Advanced level of play.

Publisher:

Strategic Simulations Disk

Format: Price:

\$34.95 (US) Availability:

Objective: Kursk

Very detailed grand-tactical simulation of the Battle of Kursk, Russia, in 1943 incolving more than 4000 tanks.

Publisher: Format:

Strategic Simulations Disk

Price:

\$39.95 (US) Availability: Ingram

Strategy game fought on the nucelar battlefield of tomorrow, as an inhuman juggernaut Cyber-tank battles conventional forces

Publisher: Format:

Origin Systems Disk

Price:

\$60.00 (US)

Operation Market Garden

Recreates the infamous Allied airborne offensive chronicled in the film 'A Bridge Too Far'. Operational-level, strong on tactics. Includes both intermediate and advanced level scenarios.

Publisher:

Strategic Simulations Disk

Format: Price:

\$49.95 (US) Ingram

Availability:

Panzer Grenadier

Command a regiment of Hitler's elite armored infantry against computer-directed Russian forces on the Eastern Front in WW-II. Introductory level of difficulty.

Publisher:

Strategic Simulations

Disk Format: \$39.95 (US) Price: Availability: Ingram

President Elect

Educational game lets you manage a 9-week campaign for the presidency, using historical or imaginary candidates.

Introductory level. Publisher:

Strategic Simulations Disk

\$39.95 (US) Price: Availability: Ingram

Professional Tour Golf

Tee off against the Masters on some of the most challenging and famous golf courses in the world.

Publisher:

Format:

Strategic Simulations

Format: Disk \$39.95 (US) Price:

Availability: Ingram

Simulated human being with 2800-word vocabulary discusses philosophy, answers questions. Amiga version uses

voice to speak aloud. Publisher:

Mindscape Disk

Format: Price: \$49.95

Availability: Beamscope, Ingram

Rails West

Sophisticated business game lets you wheel and deal as you try to build the richest Transcontinental Railroad.

Publisher:

Strategic Simulations

Disk Format:

\$39.95 (US) Price: Availability: Ingram

RDF 1985

The US Rapid Deployment Force must take Soviet-captured oilfields in Saudi Arabia. Second in the Superpowers trilogy, including Germany 1985 and Baltic 1985.

Strategic Simulations

Format: Disk

\$34.95 (US) Price: Availability: Ingram

Reforger '88

Simulates NATO defense of the Rhien-Main airbase in Frankfurt until US reinforcements can arrive. Every infantry squad, every tank, APC, aricraft, gun and missile system is accounted for. Two scenarios: Surprise Attack,

Advance Warning.

Publisher: Strategic Simulations Format: Disk Price: \$59.95 (US)

Availability: Rendezvous

Makes you the pilot of a space shuttle. You must escape into orbit before your fuel is spent, then attempt rendezvous with a space station. Uses Solid Structure Graphics to display station, docking bay, etc in 3-D perspective.

Publisher: Format:

Peachtree

Ingram

\$39.95 (US)

Software

Ringside Seat

Manage all the famous boxers of the past and present, find out who really is the greatest of them all.

Publisher: Strategic Simulations

Format: Disk \$39.95 (US) Price: Availability: Ingram

Run For the Money

A business game with a space-age theme. Macintosh version \$49.95 US.

Publisher:

Scarborough Systems Format: Disk \$19.95 (US) Price:

Availability: Ingram

Sargon II

Original version of top-rated chess program, plays a mean game but not quite as fast as updated Sargon III. Allows custom board layout for puzzle solving, switching sides,

Publisher: Format:

Havden Disk

\$19.95 (US) Price: Ingram

Availability:

Sargon III

One of the most powerful chess programs for microcomputers, an update of Sargon II. New version plays faster, offers many options such as board set up, retraction of moves, game save, etc. Includes library of famous chess games

Publisher: Format:

Hayden Disk \$49.95 (US)

Price: Availability:

Ingram

Sieg in Afrika

Operational/strategic game of the North Africa campaign in WWII, from the first Italian advances in 1940 through final battles in 1943. Player directs either Axis or allies in armored battle across Egypt, Lybia, Tunisia.

Publisher: Format:

Simulations Canada

Disk Price:

Silent Service

Graphic simulation of submarine service. Attack enemy convoys, avoid patrol boats. Choose your own patrol sectors, attack submerged or on the surface, day or night.

Publisher: Format: Price:

MicroProse Disk \$34.95 (US) Ingram

Availability:

Six-gun Shootout

Direct such infamous characters of the Wild West as Billy the Kid and Wyatt Earp in simulated gunfight action

Introductory level of difficulty

Strategic Simulations Publisher: Format:

\$39.95 (US) Price: Availability: Ingram

Fun-oriented flight simulator. Includes 3D out the window graphics, full instrumentation, 21 different airports, landing scores, weather and mechanical emergencies.

Publisher: Format:

Availability:

Price:

MicroProse Disk \$34.95 (US) Ingram

Space Shuttle: A Journey into Space

Simulates an actual space shuttle mission. Calculate decisions for takeoff, satellite rendezvous and landing.

Publisher: Activision Disk Format: \$39.95 (US) Price: Availability: Ingram

Squire

Start at age 20, try to retire a millionaire at 40. Invest in stocks, bonds, real estate, commodities, etc. Explore investment strategies, discover which avenues hold the greatest promise for you. Apple II version \$49.95 US.

Publisher: Format: Price: Availability: Blue Chip Disk \$59.95 (US) Ingram

Tellstar

Personal planetarium system, provides a graphic guide to the constellations, planets, sun, moon, start, Halley's Comet, etc. Shows sky quadrants and position of object for given time, date, etc. Performs astronomical calculations.

Publisher: Format:

Spectrum Holobyte Disk \$49.95 (US)

Price: Availability:

Ingram

Tigers in the Snow

Operational level game of Hitler's final desperate assault, the Battle of the Bulge. Introductory level of complexity.

Publisher: Format:

Strategic Simulations Disk

Price: \$39.95 (US) Availability: Ingram

Tranquility Base

A lunar-lander simulation. You start the descent from the moon's surface, from lunar orbit, or from deep space. Control console in lower part of screen gives instrument readings. Upper screen shows view of features of the lunar surface.

Publisher: Format:

Peachtree Disk

\$29.95 (US) Price:

Tycoon

Devise flexible strategies, anticipate events, trade in gold, silver, copper, oil, treasury bills, foreign currencies, agricultural commodities. Work from charts, background data. C-64 version \$29.95 US. Apple II version \$49.95 US.

Publisher: Format: Price: Availability: Blue Chip Disk \$59.95 (US) Ingram

Simulates daylight bombing of Nazi-occupied Europe by the US Army Air Force. Play either or both sides, on full 2year campaign or shorter scenarios. Assign American targets or deploy flak and Luftwaffe. Advanced level of play.

Publisher: Format:

Strategic Simulations Disk

Price: \$59.95 (US) Availability: Ingram

War in Russia

Division-level simulation of the Russian War, from 1941 to 1944

Publisher:

Strategic Simulations

Format:

Disk \$79.95 (US)

Price: Availability: Ingram

Word Challenge II

Similar to 'Boggle', pits human against computerized opponent LEXX, trying to make as many words as possible from random letters. Includes 26 levels of play, 3 board sizes, 5 scoring options, 95,000 word dictionary. Mac version \$39 95 US

Publisher: Format:

Price:

Hayden Disk \$19.95 (US) Ingram

Availability:

TECHNICAL

PROGRAMMING LANGUAGES

Apple DOS Programmer's Tool Kit

Collection of programs to aid development of Applesoft BASIC and 6502 assembly language programs. Includes assembler/editor, Boston Window Applesoft Editor, BASIC renumber utility, debugger, high-res character set editor, etc

Publisher: Format:

Price:

Apple Disk \$75.00

Apple Canada Availability:

Apple FORTRAN

ANSI Standard Subset of FORTRAN 77. Runs on Apple Pascal Operating System, includes editor, linker, file handler, assembler, Apple Pascal Compiler, system library. Linker can combine FORTRAN P-code, Pascal P-code and assembly modules Publisher:

Format: Price:

Apple Disk \$310.00

Availability:

Apple Canada

Apple Logo II

Implementation of the unique teaching language, features turtle graphics, modular programming, etc. Also available in French.

Publisher: Format:

Availability:

Price:

Apple Disk \$150.00 Apple Canada

Apple Pascal 1.3

Complete development system, includes editor, utilities, etc. SANE math support, \$60. Device Support Tools, \$38

Publisher: Format: Price:

Apple Disk \$360.00

Availability:

Apple Canada

Software

Apple SuperPILOT

Flexible authoring language for educators. Features turtle graphics, immediate-mode execution for easy debugging, access to alternate character sets, Author Mode for programming and Lesson Mode for student use.

Publisher: Apple
Format: Disk
Price: \$265.00
Availability: Apple Canada

Beagle BASIC

Enhanced Applesoft for language card users. Adds various new commmands such as TONE, IF . . . ELSE, etc. Screen Formatter utility creates PRINT statements from any text screen.

Publisher: Beagle Brothers
Format: Disk
Price: \$34.95 (US)
Availability: Ingram

BEST (BASIC Enhanced Software Tools)

Comprehensive toolkit for Applesoft BASIC programmers, includes variable and subroutine cross-reference, program merge, renumber, auto number, optimization,

Publisher: Sensible Software
Format: Disk
Price: \$39.95 (US)

Bug, The

Apple assembly language debugger, provides step and trace, pause, joystick control of execution speed, etc.

Publisher: Sensible Software Format: Disk Price: \$49.95 (US)

Chart & Graph Toolbox

A charting and graphing utility program for Applesoft BASIC. Adds 29 new commands. Includes 3-D routines, scaling, etc.

Publisher: Roger Wagner Publishing
Format: Disk
Price: \$39.95 (US)

Database Toolbox

Adds 30 new data management commands to Applesoft BASIC. Includes enhanced array handling, search, sort, rename, fast BRUN, delimited strings, etc.

Publisher: Roger Wagner Publishing
Format: Disk
Price: \$39.95 (US)

Merlin Pro

Possibly the most popular macro-assembler package for the Apple. Assembler provides assembly to disk, conditional assembly, 65C02 support, etc. Includes Sourceror disassembler. Also Merlin Pro for ProDOS. Merlin 64 for C-64, \$69.00.

Publisher: Roger Wagner Publishing
Format: Disk
Price: \$99.95 (US)

Microsoft ALDS

A complete Assembly Language Development System for the Apple running card-based CP/M. Allows programming in Z80, 8080 and 6502 machine code. Includes utilities such as linking loader, library manager, crossreference generator, etc.

Publisher: Microsoft
Format: Disk
Price: \$150.00 (US)

Microsoft FORTRAN-80 Compiler

An eight-bit implementation of the standard FORTRAN language. Generates true machine code. Apple version is for Apple CP/M.

Publisher: Microsoft
Format: Disk
Price: \$195.00 (US)

Munch A Bug

Debugger for Apple assembly language, provides step and trace, mini-assembler, etc.

Publisher: Roger Wagner Publishing
Format: Disk
Price: \$39.95 (US)

ProDOS Assembler Tools

Set of utilities designed to aid development of assembly language programs under ProDOS operating system.

Publisher: Apple
Format: Disk
Price: \$90.00
Availability: Apple Canada

S-C Macro Assembler

Powerful assembly-language programming system for the Apple II family. User-friendly, transparent to DOS commands, works with fast custom DOSes. Runs in 48K, or from 16K language card RAM. Offers macros, easy access to Applesoft, etc.

Publisher: S-C Software Format: Disk Price: \$99.95 (US)

TASC, The Applesoft Compiler

Converts programs written in Applesoft BASIC into machine code. Programs run 2 to 20 times faster than interpreted versions. Takes advantage of Apple //e and //c 128K memory space.

Publisher: Microsoft
Format: Disk
Price: \$175.00 (US)
Availability: Ingram

Terrapin LOGO

A leading implementation of the innovative learning language. Helps develop problem solving strategies, modular approach to problem solving. Network support available.

Publisher: Terrapin
Format: Disk
Price: \$120.00

UCSD Pascal

Complete implementation of standard Pascal language. Includes text editor, on-line tutorial, 8087 coprocessor support, BCD support, etc.

Publisher: Pecan Software Systems Inc Format: Disk Price: \$79.95 (US)

Video Toolbox

Includes about 30 subroutines for Apple text manipulations such as input using, four-way scrolling, screen dump, memory dump.

Publisher: Roger Wagner Publishing
Format: Disk
Price: \$39.95 (US)

Wizard's Toolbox

Adds about 30 new commands to Applesoft BASIC, including if-then-else, string overlay, and increased speed. **Publisher:** Roger Wagner Publishing

Format: Disk
Price: \$39.95 (US)

ZRASIC

Enhanced BASIC compiler, creates standalone applications. Includes features such as advanced math package, graphics support, etc. Mac version has windowing, mouse handling, type font support, Toolbox access, etc. Includes editor, help.

 Publisher:
 Zedcor

 Format:
 Disk

 Price:
 \$89.95 (US)

OPERATING SYSTEMS

Apple DOS 3.3

Original operating system for Apple II series. Interfaces to BASIC, provides usual file commands including catalog, delete, rename, lock, unlock, load, run.

Publisher: Apple
Format: Disk
Price: \$40.00
Availability: Apple Canada

Pronto DOS

Replaces Apple's DOS 3.3 with a much faster operating system. Loads, saves files several times faster than standard DOS. Compatible with most DOS software.

Publisher: Beagle Brothers
Format: Disk
Price: \$29.50 (US)
Availability: Ingram

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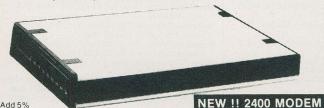
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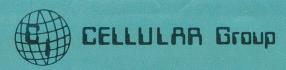
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